WHAT IS CLAIMED IS:

1. Material capable of forming clear, concentrated, biodegradable, fabric softener compositions, said material being selected from the group consisting of

compound selected from the group consisting of 1,2-butanediol, 2,3,3-trimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 2,3-hexanediol, 4methyl-; 2,3-hexanediol, 5-methyl-; 3,4-hexanediol, 2-methyl-; 1,2-butanediol, 2,3,3trimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 1,3-propanediol, 2-(1,1-dimethylpropyl)-; 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1/,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3-butanediol, 2-ethyl-2,3-dimethyl-; butanediol. 2-(2-methylpropyl)-; 1,3/butanediol, 2-methyl-2-isopropyl-1,3butanediol, 3-methyl-2-isopropyl-; /1.3-butanediol, 3-methy/-2-propyl-; butanediol, 2,2-diethyl-; 1,4-butanediol, 2-methyl-2-propyl-; 1,4-butanediol, 2-(1methylpropyl)-; 1,4-butanediol, 2-ethyl-2,3-dimethyl-; 1,4-butanediol, 2-ethyl-3,3dimethyl-, 1,4-butanediol, 2-(2-methylpropyl)-; 1,4-pentanediol, 2,2,3-trimethyl-, 1,4-pentanediol, 2,3,3-trimethyl-,/1,5-pentanediol, 2,2,3-trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 1,3-pentanediol, 2-ethyl-2-methyl-; 1,4/pentanediol, 2-ethyl-2methyl-; 1,4-pentanediol, 2-ethyl-3-methyl-; 1,4-pentanediol, 2-ethyl-4-methyl-; 1,4pentanediol, 3-ethyl-2-methyl-/ 1,4-pentanediol, 3-ethyl-3-methyl-, 1,5-pentanediol, 2-ethyl-2-methyl-; 1,5-pentanediol, 2-ethyl-4-methyl-; /2,4-pentanediol, 3-ethyl-2methyl-; 1,3-pentanediol, 2-isopropyl-; 1,3-pentanediol, 2-propyl-; 1,4-pentanediol, 2-isopropyl-; 1,4-pentanediol, 2-propyl-; 1,4-pentanediol, 3-isopropyl-; pentanediol, 3-propyl-; 1,3/hexanediol, 2,3-dimethyl-/1,3-hexanediol, 2,5-dimethyl-; 1,3-hexanediol, 3,4-dimethyl-, 1,3-hexanediol, 3,5/dimethyl-, 1,3-hexanediol, 4,5dimethyl-: 1,4-hexanediol, 2,2-dimethyl-; 1,4-Kexanediol, 2.3-dimethyl-; hexanediol, 2,4-dimethyl-, 1,4-hexanediol, 3,3/-dimethyl-; 1,4-hexanediol, 3,4dimethyl-; 1,4-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,4-dimethyl-, 1.4hexanediol, 4,5-dimethyl-; 1,5-hexanediol, \$\frac{1}{2}\$,2-dimethyl-; 1,5-hexanediol, 3,4dimethyl-; 1,5-hexanediol, 3,5-dimethyl-; 1,5-hexanediol, 4,5-dimethyl-; 1.6hexanediol, 2,3-dimethyl-; 1,6-hexanediol, 2,4-dimethyl-; 1,6-hexanediol, 3,3dimethyl-; 2,4-hexanediol, 4,5-dimethyl-; 2,5-hexanediol, 2,3-dimethyl-; 2.5hexanediol, 2,4/dimethyl-, 2,5-hexanediol, 3,3-dimethyl-, 2,6-hexanediol, 3,3dimethyl-; 1,3-hexanediol, 4-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,5-hexanediol, 3-ethyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,5-heptanediol, 3-methyl-, 1,5-heptanediol, 4-methyl-, 1,6-heptanediol, 3-methyl-, 1,6-heptanediol, 5-methyl-, 2,4-heptanediol, 5-methyl-, 2,5-heptanediol, 3-methyl-, 3,5-heptanediol, 2-methyl-; 2,6-octanediol; 2,4-hexanediol, 3,3,4-trimethyl-; 2,4hexanediol, 3,5,5-trimethyl-; 2,4-hexanediol, 4,5,5-trimethyl-; 2,5-hexanediol, 3,3,4-trimethyl-; 2,5-hexanediol, 3,3,5-trimethyl-;

- ether solvent selected from the group consisting of: 1,2-propanediol, 3-(2pentyloxy)-, 1,2-propanediol, 3-(3-pentyloxy)-, 1,2-propanediol, /3-(2-methyl-1butyloxy)-; 1,2-propanediol, 3-(iso-amyloxy)-; /1,2-propanediol, / 3-(3-methyl-2butyloxy)-, 1,2-propanediol, 3-(cyclohexyloxy)-/1,2-propanediol, /3-(1-cyclohex-1enyloxy)-; 1,3-propanediol, 2-(pentyloxy)-; 1,3-propanediol, 2-(2/pentyloxy)-; 1,3propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3propanediol, 2-(iso-amyloxy)-; 1,3-propanediol, 2-(3-methyl/2-butyloxy)-; 1,3propanediol, 2-(cyclohexyloxy)-; 1,3-propanediol, 2-(1-cyclohex-1-enyloxy)-; 1,2propanediol, 3-(butyloxy)-, triethoxy/ated; 1,2-propanediol. 3-(butyloxy)-, tetraethoxylated; 1,2-propanediol, 3-(buryloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated; 1,2-propanediol, 3-(butyloxy)-, octalethoxylated; 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol/ 3-(but/loxy)/, monopropoxylated; propanediol, 3-(butyloxy)-, dibutyleneoxylated; and 1,2-propanediol, 3-(butyloxy)-, tributyleneoxylated; bis(2-)ydroxybutyl)ether, and bis(2-hydroxycyclopentyl)ether,
- C. compounds which are homologs, or analogs, of the following compounds in which each homolog, or analog, contains at least one additional CH2 group and the total number of hydrogen atoms is kept the same by inserting one double bond for each additional CH2 group:
- I. n-propanol,
- II. 2-butanol and/or 2-methyl-2-propanol;
- III. 2,3-butanediol, 2,3-dimethyl-; 1,2-butanediol, 2,3-dimethyl-; 1,2-butanediol, 3,3-dimethyl-; 2,3-pentanediol, 2-methyl-; 2,3-pentanediol, 3-methyl-; 2,3-pentanediol, 4-methyl-; 2,3-hexanediol; 3,4-hexanediol; 1,2-butanediol, 2-ethyl-; 1,2-pentanediol, 2-methyl-; 1,2-pentanediol, 3-methyl-; 1,2-pentanediol; 1,2-pentanediol;
- IV. 1,3-propanediol, 2-butyl-; 1,3-propanediol, 2,2-diethyl-; 1,3-propanediol, 2-(1-methylpropyl)-; 1,3-propanediol, 2-(2-methylpropyl)-; 1,3-propanediol, 2-methyl-2-propyl-; 1,2-butanediol, 2,3,3-trimethyl-; 1,4-butanediol, 2-ethyl-2-methyl-; 1,4-butanediol, 2-ethyl-3-methyl-; 1,4-butanediol, 2-propyl-; 1,4-butanediol, 2-isopropyl-; 1,5-pentanediol, 2,2-dimethyl-; 1,5-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2,3-dimethyl-; 2,3-pentanediol, 2,4-dimethyl-; 2,3-pentanediol, 2,4-dimethyl-; 2,3-pentanediol, 3,4-dimethyl-; 2,3-pentanediol, 4,4-dimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2-ethyl-; 1,6-hexanediol, 2-methyl-; 1,6-hexanediol, 3-methyl-; 2,3-hexanediol, 2-methyl-; 2,3-hexanediol, 3-methyl-; 2,3-hexanediol, 3-methy

methyl-; 2,3-hexanediol, 4-methyl-; 2,3-hexanediol, 5-methyl-; 3,4-hexanediol, 2, methyl-; 3,4-hexanediol, 3-methyl-; 1,3-heptanediol; 1,4-; heptanediol; 1,5-heptanediol; and\or 1,6-heptanediol;

heptanediol; and/or 1,6-heptanediol; 1,3-propanediol, 2-(2-methylbutyl)-; 1,3-propanediol, 2-(1,1-dimethylpropyl)-V. 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3-propanediol, 2-(1-ethylpropyl)-; 1,3propanediol, 2-(1-methylbutyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3propanediol, 2-(3-methylbutyl)-; 1,3-propanediol, 2-butyl-2-methyl-; 1,3propanediol, 2-ethyl-2-isopropyl-; 1,3-propanediol. 2-ethyl-2-propyl-; 1,3propanediol. 2-methyl-2-(1-methylpropyl)-; 1.3-propanediol, 2-methyl-2-(2methylpropyl)-, 1,3-propanediol, 2-tertiary-butyl-2-methyl-; Y.3-butanediol. 2.2-1,3-butanediol, 2-(1-methylpropyl)-; diethyl-; 1,3-butanediol 1.3butanediol. 2-ethyl-2,3-dimethyl-; 1.3-butanediol. 2-(1/1-dimethylethyl)-; 1,3butanediol. 2-(2-methylpropyl)-; 1, B-butanediol 2-methyl-2-isopropyl-; 1,3butanediol, 2-methyl-2-propyl-: 1/3-butanediol, 3-methyl-2-isopropyl-; 1,3butanediol, 3-methyl-2-propyl, 1,4-butanediol, 2,2-diethyl-, 1,4-butanediol, 2methyl-2-propyl-, 1,4-butanediol, 2/(1-methylpropyl)-, 1,4-butanediol, 2-ethyl-2,3dimethyl-; 1,4-butanediol. 2-kthyl-3,3-dimethyl-; 1,4-butanediol. dimethylethyl)-; 1,4-butanediol, //(2-methylpropyl)-; 1,4-butanediol, 2-methyl-3propyl-; 1,4-butanedio, 3-methyl-2-isopropyl-; 1,3-pentanediol, 2,2,3-trimethyl-; 1,3-pentanediol, 2,2,4/trimethyl/; 1,3-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2,4,4-trimethyl-; 1,3-pentanediol, 3,4,4-trimethyl-; 1,4-pentanediol, 2,2,3-trimethyl-; 1,4-pentanediol, 2,2,4-trimethyl-; 1,4-pentanediol, 2,3,3-trimethyl-; 1,4-pentanediol, 3,3,4-trimethyl-; 1,5-pentanediol, 2,2,4-trimethyl-; 1,5-pentanediol, 2,2,4-trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 1,5-pentanediol, 2,3,4-trimethyl-; 2,4-pentanediol, 2,3,3-trimethyl-; 2,4-penta/lediol, 2/3,4-trimethyl-; 1,3-pentanediol, 2-ethyl-2-methyl-; 1,3-pentanediol, 2-ethyl-3-methyl-; 1,3-pentanediol, 2-ethyl-4-methyl-; 1,3pentanediol, 3-ethyl-2-methyl-, /1,4-pentanediol, 2-ethyl-2-methyl-, 1,4-pentanediol, 2-ethyl-3-methyl-; 1,4-pentanediol, 2-ethyl-4-methyl-; 1,4-pentanediol, 3-ethyl-2methyl-; 1,4-pentanediol, 3-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-2-methyl-; 1,5pentanediol, 2-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-4-methyl-; 1,5-pentanediol, 3-ethyl-3-methyl-; 2,4-pentanediol, 3-ethyl-2-methyl-; 1,3-pentanediol, 2-isopropyl-; 1,3-pentanediol, 2-propyl-; 1,4-pentanediol, 2-isopropyl-; 1,4-pentanediol, 2-propyl-; 1,4-pentanediol, 3-isopropyl-; 1,5-pentanediol, 2-isopropyl-; 2,4-pentanediol, 3propyl-; 1,3-hexamediol. 2,2-dimethyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3hexanediol, 2,4-dimethyl-; 1,3-hexanediol, 2,5-dimethyl-; 1,3-hexanediol, 3,4dimethyl-, 1,3-hecanediol. 3.5-dimethyl-; 1.3-hexanediol, 4.5-dimethyl-; 1.4hexanediol, 2,2-dimethyl-; 1,4-hexanediol, 2,3-dimethyl-; 1,4-hexanediol, 2.4-

dimethyl-; 1,4-hexanediol, 2,5-dimethyl-; 1,4-hexanediol, 3,3-dimethyl-1,4hexanediol, 3,4-dimethyl-; 1.4-hexanediol, 3,5-dimethyl-, 1,3-hexanediol, 4,4dimethyl-; 1,4-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 5,\$-dimethyl-; 1,5hexanediol, 2,2-dimethyl-; 1,5-hexanediol, 2,3-dimethyl-; 1,5-hexanediol. 2,4dimethyl-; 1,5-hexanediol, 2,5-dimethyl-, 1,5-hexanediol, 3,3-dimethyl-; 1,5hexanediol, 3,4-dimethyl-; 1,5-hexanediol, 3,5-di/nethyl-; 1,5-hexanediol. 4,5dimethyl-; 1,6-hexanediol, 2,2-dimethyl-; 1,6-hexanedjól, 2.3-dimethyl-; 1,6hexanediol, 2,4-dimethyl-; 1,6-hexanediol, 2,5/dimethyl-; 1,6-hexanediol, 3,3dimethyl-; 1,6-hexanediol, 3,4-dimethyl-; 2,4-hexanediol, 2,3-dimethyl-; 2,4hexanediol, 2,4-dimethyl-; 2,4-hexanediol, 2/5-dimethyl-; 2,4-hexanediol, 3,3dimethyl-; 2,4-hexanediol, 3,4-dimethyl-; A-hexanediol, 3.5-dimethyl-; 2,4hexanediol. 4,5-dimethyl-; 2,4-hexanediol, 5,5-dimethyl-; 2,5-hexanediol. 2,3dimethyl-; 2,5-hexanediol, 2,4-dimethyl, 2,5-hexanediol, 2,5-dimethyl-; 2,5hexanediol, 3,3-dimethyl-; 2,5-hexanediot/ 3,4-dimethyl-; 2,6-hexanediol, 3,3dimethyl-; 1,3-hexanediol, 2-ethyl-; 1,3-hexanediol, 4-ethyl-; 1,4-hexanediol, 2-ethyl-; 1,4-hexanediol, 4-ethyl-; 1,5-hexanediol, 2-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,4hexanediol, 4-ethyl-, 2,5-hexanediol, 3/ethyl-, 1,3-heptanediol, 2-methyl-, 1,3heptanediol, 3-methyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3heptanediol, 6-methyl-; 1,4-heptanediol, 2-methyl-; 1,4-heptanediol, 3-methyl-; 1,4heptanediol, 4-methyl-, 1,4-heptanediol, 5-methyl-, 1,4-heptanediol, 6-methyl-, 1,5heptanediol, 2-methyl-, 1,5-heptanediol, 3/methyl-, 1,5-heptanediol, 4-methyl-, 1,5heptanediol, 5-methyl-; 1,5-heptanediol, 6-methyl-; 1,6-heptanediol, 2-methyl-; 1,6heptanediol, 3 methyl-; 1,6-heptanediol, 4-methyl-; 1,6-heptanediol, 5-methyl-; 1,6heptanediol, 6-methyl-, 2,4-heptanediol, 2-methyl-, 2,4-heptanediol, 3-methyl-, 2,4heptanediol, 4-methyl-, 2,4-heptanediol, 5-methyl-, 2,4-heptanediol, 6-methyl-, 2,5heptanediol, 2-methyl-, 2,5-heptanediol, 3-methyl-, 2,5-heptanediol, 4-methyl-, 2,5heptanediol, 5-methyl-, 2,5-heptanediol, 6-methyl-, 2,6-heptanediol, 2-methyl-, 2,6heptanediol, 3-methyl-, 2,6-heptanediol, 4-methyl-, 3,4-heptanediol, 3-methyl-, 3,5heptanediol, 2-methyl-; 3,5-heptanediol, 3-methyl-; 3,5-heptanediol, 4-methyl-; 2,4octanediol; 2,5-octanediol; 2,6-octanediol; 2,7-octanediol; 3,5-octanediol; and/or 3,6-octanediol;

VI. 2,4-pentanediol, 2,3,3,4-terramethyl-, 2,4-pentanediol, 3-tertiarybutyl-, 2,4-hexanediol, 2,5,5-trimethyl-, 2,4-hexanediol, 3,3,4-trimethyl-, 2,4-hexanediol, 3,3,5-trimethyl-, 2,4-hexanediol, 4,5,5-trimethyl-, 2,5-hexanediol, 3,3,4-trimethyl-, and/or 2,5-hexanediol, 3,3,5-trimethyl-,

VII. Alkoxylated derivatives of C₃₋₈ diols including:

1. 1,2-propanediol (C3) 2(Me-E₁₋₄); 1,2-propanediol (C3) PO₄; 1,2 propanediol, 2-methyl- (C4) (Me-E₄₋₁₀); 1,2-propanediol, 2-methyl- (C4) 2(Me-E₁); 1,2-propanediol, 2-methyl- (C4) PO₃; 1,2-propanediol, 2-methyl- (C4) BO₁; 1,3-propanediol (C3) 2(Me-E₆₋₈); 1,3-propanediol (C3) PO₅₋₆; 1,3-propanediol, 2,2-diethyl- (C7) E₁₋₇; 1,3-propanediol, 2,2-diethyl- (C7) PO₁; 1,3-propanediol, 2,2-diethyl- (C7) n-BO₁₋₂; 1,3-propanediol, 2,2-d/methyl- (C5) 2(Me \cancel{E}_{1-2}); 1,3propanediol, 2,2-dimethyl- (C5) PO₃₋₄; 1,3-propanediol, 2-(1-methylpropyl)- (C7) E₁₋₇, 1,3-propanediol, 2-(1-methylpropyl)- (Q7) PO₁; 1,3-propanediol, 2-(1methylpropyl)- (C7) n-BO₁₋₂; 1,3-propanediol, $\rlap/2$ -(2-methylpropyl)- (C7) E₁₋₇; 1,3propanediol, 2-(2-methylpropyl)- (C7) PO₁; 1,3-propanediol, 2-(2-methylpropyl)-(C7) n-BO₁₋₂, 1,3-propanediol, 2-ethyl- (C5) (Me E₆₋₁₀); 1,3-propanediol, 2-ethyl-(C5) 2(Me E₁); 1,3-propanediol, 2-ethyl- (C5) PO₃; 1,3/propanediol, 2-ethyl-2methyl- (C6) (Me E₁₋₆); 1,3-propanediol, 2-ethyl-2-methyl- (C6) PO₂, 1,3propanediol, 2-ethyl-2-methyl- (C6) BO1; /1,3-propanediol, 2-isopropyl- (C6) (Me E₁₋₆); 1,3-propanediol, 2-isopropyl- (C6)/PO₂; 1,3-propanediol, 2-isopropyl- (C6) BO₁, 1,3-propanediol, 2-methyl- (C4) $2(\text{Me E}_{2-5})$; /1,3-propanediol, 2-methyl- (C4) PO₄₋₅; 1,3-propanediol, 2-methyl- (C4) BO₂; 1,3-propanediol, 2-methyl-2isopropyl- (C7) E₂₋₉; 1,3-propanedial, 2-methyl-2-isopropyl- (C7) PO₁, 1,3propanediol, 2-methyl-2-isopropyl- (C7) $n-BO_{1-3}$; 1,3-propanediol, 2-methyl-2propyl- (C7) E₁₋₇, 1,3-propanediol, 2-methyl/2-propyl- (C7) PO₁, 1,3-propanediol, 2-methyl-2-propyl- (C7) n-B ϕ_{1-2} , 1,3-propyl-ediol, 2-propyl- (C6) (Me E₁₋₄), 1,3propanediol, 2-propyl- (C6) PO2; 1,3-propyl-ediol, 2-propyl- (C6) BO1;

2. 1,2-butanediol (C4) (Me/E₂-g); 1,2-butanediol (C4) PO₂₋₃; 1,2-butanediol (C4) BO₁; 1,2-butanediol, 2/3-dimethyl- (C6) n-BO₁₋₂; 1,2-butanediol, 2-ethyl- (C6) E₁₋₃; 1,2-butanediol, 2-ethyl- (C6) n-BO₁; 1,2-butanediol, 2-methyl- (C5) (Me E₁₋₂); 1,2-butanediol, 2-methyl- (C5) PO₁; 1,2-butanediol, 3/3-dimethyl- (C6) E₁₋₆; 1,2-butanediol, 3/3-dimethyl- (C6) n-BO₁₋₂; 1,2-butanediol, 3/3-methyl- (C5) (Me E₁₋₂); 1,2-butanediol, 3-methyl- (C5) PO₁; 1,3-butanediol (C4) 2(Me E₃₋₆); 1,3-butanediol (C4) PO₅; 1,3-butanediol (C4) BO₂; 1,3-butanediol, 2,2-dimethyl- (C7) (Me E₁₋₃); 1,3-butanediol, 2,2-dimethyl- (C7) PO₁₋₂; 1,3-butanediol, 2,2-dimethyl- (C6) (Me E₃₋₈); 1,3-butanediol, 2,2-dimethyl- (C6) PO₃; 1,3-butanediol, 2-ethyl- (C6) (Me E₁₋₆); 1,3-butanediol, 2-ethyl- (C6) PO₂₋₃; 1,3-butanediol, 2-ethyl- (C6) BO₁; 1,3-butanediol, 2-ethyl-2-methyl- (C7) (Me E₁); 1,3-butanediol, 2-ethyl-2-methyl- (C7) PO₁; 1,3-butanediol, 2-ethyl-2-methyl- (C7) PO₁; 1,3-butanediol, 2-ethyl-3-methyl- (C7) (Me E₁); 1,3-butanediol, 2-ethyl-3-methyl- (C7) (Me E

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2-ethyl-3-methyl- (C7) n-BO₂₋₄; 1,3-butanediol, 2-isopropyl- (C7) (Me E₁); 1,3butanediol, 2-isopropyl- (C7) PO1, 1,3-butanediol, 2-isopropyl- (C7) n-BO2-4, 1,3butanediol, 2-methyl- (C5) 2(Me E₁₋₃); 1,3-butanediol, 2/methyl- (C5)/PO₄; 1,3butanediol, 2-propyl- (C7) E₂₋₉; 1,3-butanediol, 2-propyl-/(C7) PO₁; 1,3-butanediol, 2-propyl- (C7) n-BO₁₋₃; 1,3-butanediol, 3-methyl- (C5) $\cancel{2}$ (Me E₁₋₃); $\cancel{1}$,3-butanediol, 3-methyl- (C5) PO₄; 1,4-butanediol (C4) 2(Me E₂₋₄)/1,4-butanediol (C4) PO₄₋₅; 1,4-butanediol (C4) BO₂; 1,4-butanediol, 2,2,3-trimethyl- (C7) E₂₋₉; 1,4-butanediol, 2,2,3-trimethyl- (C7) PO₁; 1,4-butanediol, 2,2,3-trimethyl- (C7) n-BO₁₋₃; 1,4butanediol, 2,2-dimethyl- (C6) (Me E₁₋₆); 1,4-buyanediol, 2,2-dimethyl- (C6) PO₂, 1,4-butanediol, 2,2-dimethyl- (C6) BO1; 1,4-butanediol, 2,3-dimethyl- (C6) (Me E1-6); 1,4-butanediol, 2,3-dimethyl- (C6) PO2; 1,4-butanediol, 2,3-dimethyl- (C6) BO1; 1,4-butanediol, 2-ethyl- (C6) (Me E₁₋₄); 1,4/butanediol, 2-ethyl- (C6) PO₂; 1,4butanediol, 2-ethyl- (C6) BO1; 1,4-butaned/ol, 2-ethyl-2-methyl- (C7) E1-7, 1,4butanediol, 2-ethyl-2-methyl- (C7) PO1; 1,4-butanediol, 2-ethyl-2-methyl- (C7) n- BO_{1-2} ; 1,4-butanediol, 2-ethyl-3/methyl-/ (4) E_{1-7} ; 1,4-bytanediol, 2-ethyl-3methyl- (C7) PO₁; 1,4-butanediol, 2-ethyl-3/methyl- (C7) n-BO₁₋₂; 1,4-butanediol, 2-isopropyl- (C7) E₁₋₇, 1,4-butanediol,/2-isopropyl- (C7) PO₁; 1,4-butanediol, 2isopropyl- (C7) n-BO₁₋₂; 1/4-butan/edic/, 2-methyl- (C5) (Me E₆₋₁₀); 1,4butanediol, 2-methyl- (C5) 2(Me E/1); 1/4-butanediol/2-methyl- (C5) PO3; 1,4butanediol, 2-methyl- (C5) \$01; (1,4-butanediol, 2-propyl- (C7) E₁₋₅; 1,4butanediol, 2-propyl- (C7) n-BO₁₋₂, 1/4-butanediol, 3-ethyl-1-methyl- (C7) E₂₋₉, 1,4-butanediol, 3-ethyl-1-methyl-(C7) PO1; 1,4-butanediol, 3-ethyl-1-methyl- (C7) n-BO₁₋₃; 2,3-butanediol (C4) (Me $|E_{6-10}|$; 2,3-butanediol (C4) 2(Me E_1); 2,3butanediol (C4) PO₃₋₄; 2,3-butanediol (C4) BO₁; 2,3-butanediol, 2,3-dimethyl- (C6) E₃₋₉, 2,3-butanediol, 2,3-dimethyl-/(C6) PO₁, 2,3-butanediol, 2,3-dimethyl- (C6) n- BO_{1-3} , 2,3-butanediol, 2-methyl-/(C5) (Me E_{1-5}); 2,3-butanediol, 2-methyl- (C5) PO₂, 2,3-butanediól, 2-methyl- (¢5) BO₁;

3. 1,2-pentanediol (C5) E₃₋₁₀; 1,2-pentanediol, (C5) PO₁; 1,2-pentanediol, (C5) n-BO₂₋₃; 1,2-pentanediol, 2-methyl (C6) E₁₋₃; 1,2-pentanediol, 2-methyl (C6) n-BO₁; 1,2-pentanediol, 3-methyl (C6) E₁₋₃; 1,2-pentanediol, 3-methyl (C6) n-BO₁; 1,2-pentanediol, 4-methyl (C6) E₁₋₃; 1,2-pentanediol, 4-methyl (C6) n-BO₁; 1,3-pentanediol (C5) 2(Me-E₁₋₂); 1,3-pentanediol (C5) PO₃₋₄; 1,3-pentanediol, 2,2-dimethyl- (C7) (Me-E₁); 1,3-pentanediol, 2,2-dimethyl- (C7) n-BO₂₋₄; 1,3-pentanediol, 2,3-dimethyl- (C7) PO₁; 1,3-pentanediol, 2,3-dimethyl- (C7) PO₁; 1,3-pentanediol, 2,4-dimethyl- (C7) (Me-E₁); 1,3-pentaned

dimethyl- (C7) n-BO₂₋₄; 1,3-pentanediol, 2-ethyl- (C7) E₂₋₉; 1,3-pentanediol, 2 ethyl- (C7) PO₁; 1,3-pentanediol, 2-ethyl- (C7) n-BO₁₋₃; 1/3-pentanediol, 2-methyl-(C6) 2(Me- E_{1-6}); 1,3-pentanediol, 2-methyl- (C6) PQ₂₋₃; 1,3-pentanediol, 2methyl- (C6) BO₁; 1,3-pentanediol, 3,4-dimethyl- (C7)/(Me-E₁); 1,3-pentanediol, 3,4-dimethyl- (C7) PO₁, 1,3-pentanediol, 3,4-dimethyl- (C7) n-BO₂₋₄, 1,3pentanediol, 3-methyl- (C6) (Me-E₁₋₆), 1,3-pentanediol, 3-methyl- (C6) PO₂₋₃, 1,3pentanediol, 3-methyl- (C6) BO₁; 1,3-pentanediol, 4,4-dimethyl- (C7) (Me-E₁); 1,3pentanediol, 4,4-dimethyl- (C7) PO₁; 1,3-pentanediol, 4,4-dimethyl- (C7) n-BO₂₋₄; 1,3-pentanediol, 4-methyl- (C6) (Me-E₁₋₆); 1,3-pentanediol, 4-methyl- (C6) PO₂₋₃; 1,3-pentanediol, 4-methyl- (C6) BO₁; 1,4-pen/anediol, (C5) 2(Me-E₁₋₂); 1,4pentanediol (C5) PO₃₋₄; 1,4-pentanediol, 2/2-dimethyl-/ (C7) (Me-E₁); 1,4pentanediol, 2,2-dimethyl- (C7) PO₁; 1,4-pentanediol, 2,2-dimethyl- (C7) n-BO₂₋₄; 1,4-pentanediol, 2,3-dimethyl- (C7) (Me-E₁);/1,4-pentanediol, 2,3-dimethyl- (C7) PO₁; 1,4-pentanediol, 2,3-dimethyl- (C7) n-BO₂₋₄; /1,4-pentanediol, 2,4-dimethyl-(C7) (Me-E₁); 1,4-pentanediol, 2,4-dimeth/l- (C/7) PO₁; 1,4-pentanediol, 2,4dimethyl- (C7) n-BO₂₋₄; 1,4-pentanediol, 2/methyl- (C6) (Me-E₁₋₆); 1,4pentanediol, 2-methyl- (C6) PO₂₋₃; 1,4-pentanediol, 2-methyl- (C6) BO₁; 1,4pentanediol, 3,3-dimethyl- (C7) (Me-E₁); 1/4-pentanediol, 3,3-dimethyl- (C7) PO₁; 1,4-pentanediol, 3,3-dimethyl- (C7) n-B $\not Q_2$, 1,4-pentanediol, 3,4-dimethyl- (C7) (Me-E₁); 1,4-pentanediol, 3,4-dimethyl- (C/7) P₁O₁; 1,4-pentanediol, 3,4-dimethyl-(C7) n-BO₂₋₄; 1,4-pentanediol, 3-methy/ (C6) 2(Me- E_{1-6}); 1,4-pentanediol, 3methyl- (C6) PO₂₋₃; 1,4-pentanediol, 3/methyl- (C6) BO₁; 1,4-pentanediol, 4methyl- (C6) 2(Me-E₁₋₆); 1,4-pentanediol, 4-methyl- (C6) PO₂₋₃; 1,4-pentanediol, 4-methyl- (C6) BO₁; 1,5-pentanediol, $(\rlap/c)/(Me E_{4-10})$; 1,5-pentanediol (C5) 2(Me- E_1); 1,5-pentanediol (C5) PO₃, 1,5-pentanediol, 2,2-dimethyl- (C7) E_{1-7} , 1,5pentanediol, 2,2-dimethyl- (C7) PO₁/1,5-pentanediol, 2,2-dimethyl- (C7) n-BO₁₋₂, 1,5-pentanediol, 2,3-dimethyl- (C7) E/1-7; 1,5-pentanediol, 2,3-dimethyl- (C7) PO₁; 1,5-pentanediol, 2,3-dimethyl- (C7)/n-BO₁₋₂, 1,5-pentanediol, 2,4-dimethyl- (C7) E_{1-7} , 1,5-pentanediol, 2,4-dimethyl-/(C7) PO₁, 1,5-pentanediol, 2,4-dimethyl- (C7) n-BO₁₋₂, 1,5-pentanediol, 2-ethyl- (C7) E₁₋₅, 1,5-pentanediol, 2-ethyl- (C7) n-BO₁ 2, 1,5-pentanediol, 2-methyl- (C6) (Me-E₁₋₄), 1,5-pentanediol, 2-methyl- (C6) PO₂, 1,5-pentanediol, 3,3-dimethyl- (C7) E₁₋₇, 1,5-pentanediol, 3,3-dimethyl- (C7) PO₁, 1,5-pentanediol, 3,3-dimethyl-(C/7) n-BO₁₋₂, 1,5-pentanediol, 3-methyl- (C6) (Me- E_{1-4}); 1,5-pentanediol, 3-methyl/ (C6) PO₂, 2,3-pentanediol, (C5) (Me- E_{1-3}), 2,3pentanediol, (C5) PO₂, 2,3-pentanediol, 2-methyl- (C6) E₁₋₇, 2,3-pentanediol, 2methyl- (C6) PO₁; 2,3-pentanediol, 2-methyl- (C6) n-BO₁₋₂; 2,3-pentanediol, 3methyl- (C6) E₁₋₇; 2,3-pentanediol, 3-methyl- (C6) PO₁; 2,3-pentanediol, 3-methyl-

(C6) n-BO₁₋₂; 2,3-pentanediol, 4-methyl- (C6) E₁₋₇; 2,3-pentanediol, 4-methyl-(C6) PO₁; 2,3-pentanediol, 4-methyl- (C6) n-BO₁₋₂; 2,4-pentanediol, (C5) 2(Me- E_{1-4}); 2,4-pentanediol (C5) PO₄; 2,4-pentanediol, 2,3-dimethyl/ (C7) (Mé- E_{1-4}); 2,4-pentanediol, 2,3-dimethyl- (C7) PO₂; 2,4-pentanediol, 2,4-dimethyl- (C7) (Me-E₁₋₄); 2,4-pentanediol, 2,4-dimethyl- (C7) PO₂; 2,4-pentanediol, 2-methyl- (C7) (Me-E₅₋₁₀), 2,4-pentanediol, 2-methyl- (C7) PO₃, 2,4-pentanediol, 3,3-dimethyl-(C7) (Me- E_{1-4}); 2,4-pentanediol, 3,3-dimethyl- (C7) P ϕ_2 ; 2,4-pentanediol, 3methyl- (C6) (Me-E₅₋₁₀), 2,4-pentanediol, 3-methyl- (C6)/PO₃;

1,3-hexanediol (C6) (Me-E₁₋₅); 1,3-hexanediol (C6) PO₂; 1,3hexanediol (C6) BO₁; 1,3-hexanediol, 2-methyl- (C7) E₂₋₉; 1/3-hexanediol, 2methyl- (C7) PO₁, 1,3-hexanediol, 2-methyl- (C7) h-BO₁₋₃, /1,3-hexanediol, 2methyl- (C7) BO₁; 1,3-hexanediol, 3-methyl- (C7) F₂₋₉; 1,3-hexanediol, 3-methyl-(C7) PO₁; 1,3-hexanediol, 3-methyl- (C7) n-BO₁₋₃/1,3-hexanediol, 4-methyl- (C7) E₂₋₉; 1,3-hexanediol, 4-methyl- (C7) PO₁; 1,3-hexanediol, 4-methyl- (C7) n-BO₁₋₃; 1,3-hexanediol, 5-methyl- (C7) E2-9; 1,3-hexanedialo; 5 methylanetial, Pomethyl- (C7) PO1 hexanediol, 5-methyl- (C7) n-BO₁₋₃; 1,4-hexanediol (C6) (Me-E₁₋₅); 1,4-hexanediol (C6) PO₂; 1,4-hexanediol (C6) BO₁; 1,4-hexanediol, 2-methyl- (C7) E₂₋₉; 1,4hexanediol, 2-methyl- (C7) PO₁; 1,4-hexanediol, 2-methyl- (C7) n-BO₁₋₃; 1,4hexanediol, 3-methyl- (C7) E2-9; 1/4-hexanediol, 3-methyl- (C7) PO1; 1,4hexanediol, 3-methyl- (C7) n-BO₁₋₃, 1,4-hexanediol, 4-methyl- (C7) E₂₋₉; 1,4hexanediol, 4-methyl- (C7) PO1; 1,4-hexanediol 4-methyl- (C7) n-BO1-3; 1,4hexanediol, 5-methyl- (C7) E2-9; 1,4-hexanediol, 5-methyl- (C7) PO1; 1,4hexanediol, 5-methyl- (C7) n-BO₁/₃, 1,5-hexanediol (C6) (Me-E₁₋₅), 1,5-hexanediol (C6) PO₂; 1,5-hexanediol (C6) BO₁; 1,5-hexanediol, 2-methyl- (C7) E₂₋₉; 1,5hexanediol, 2-methyl- (C7) PO1, 1,5-hexanediol, 2-methyl- (C7) n-BO1-3; 1,5hexanediol, 3-methyl- (C7) E_{2-9} ; 1,5-hexanediol, 3-methyl- (C7) PO_1 ; 1,5hexanediol, 3-methyl- ((C7) n-BO₁₋₃; /1,5-hexanediol, 4-methyl- ((C7) E₂₋₉; 1,5hexanediol, 4-methyl-/(C7) PO₁; 1.5/hexanediol, 4-methyl- (C7) n-BO₁₋₃; 1.5hexanediol, 5-methyl- (C7) E_{2-9} , /1,5-hexanediol, 5-methyl- (C7) PO_1 , 1,5hexanediol, 5-methyl- (C7) n-BO₁₋₃,/1,6-hexanediol (C6) (Me-E₁₋₂), 1,6-hexanediol (C6) PO₁₋₂; 1,6-hexanediol (C6) n-BO₄; 1,6-hexanediol, 2-methyl- (C7) E₁₋₅; 1,6hexanediol, 2-methyl- (C7) n-BO $_{1-2}$; 1,6-hexanediol, 3-methyl- (C7) E_{1-5} ; 1,6hexanediol, 3-methyl- (C7) n-BO $_1/_2$, 2,3-hexanediol (C6) E $_{1-5}$, 2,3-hexanediol (C6) n-BO₁, 2,3-hexanediol (C6) BO₁; 2,4-hexanediol (C6) (Me-E₃₋₈); 2,4-hexanediol (C6) PO₃; 2,4-hexanediol, 2-methyl- (C7) (Me-E₁₋₂); 2,4-hexanediol 2-methyl- (C7) PO₁₋₂, 2,4-hexanediol, 3-methyl- (C7) (Me-E₁₋₂), 2,4-hexanediol 3-methyl- (C7) PO₁₋₂; 2,4-hexanediol, 4-methyl- (C7) (Me-E₁₋₂); 2,4-hexanediol 4-methyl- (C7)

PO₁₋₂, 2,4-hexanediol, 5-methyl- (C7) (Me-E₁₋₂); 2,4-hexanediol 5-methyl- (C7) PO₁₋₂, 2,5-hexanediol (C6) (Me-E₃₋₈), 2,5-hexanediol (C6) PO₃, 2,5-hexanediol, 2-methyl- (C7) (Me-E₁₋₂); 2,5-hexanediol 2-methyl- (C7) PO₁₋₂, 2,5-hexanediol, 3-methyl- (C7) (Me-E₁₋₂); 2,5-hexanediol 3-methyl- (C7) PO₁₋₂, 3,4-hexanediol (C6) EO₁₋₅, 3,4-hexanediol (C6) n-BO₁; 3,4-hexanediol (C6) BO₁;

- 5. 1,3-heptanediol (C7) E_{1-7} ; 1,3-heptanediol (C7) PO_1 ; 1,3-heptanediol (C7) n-BO₁₋₂; 1,4-heptanediol (C7) E_{1-7} ; 1,4-heptanediol (C7) PO_1 ; 1,4-heptanediol (C7) n-BO₁₋₂; 1,5-heptanediol (C7) E_{1-7} ; 1,5-heptanediol (C7) PO_1 ; 1,5-heptanediol (C7) PO_1 ; 1,5-heptanediol (C7) PO_1 ; 1,6-heptanediol (C7) PO_1 ; 2,4-heptanediol (C7) PO_1 ; 2,4-heptanediol (C7) PO_1 ; 2,4-heptanediol (C7) PO_1 ; 2,5-heptanediol (C7) PO_1 ; 2,5-heptanediol (C7) PO_1 ; 2,5-heptanediol (C7) PO_1 ; 2,5-heptanediol (C7) PO_1 ; 2,6-heptanediol (C7) PO_1 ; 3,5-heptanediol (PO_1)
- 1,3-butanediol, 3-methyl-2-isopropyl- (C8) PO1; 2,4-pentanediol, 2,3,3-trimethyl- (C8) PO1; 1,3-butahedio/, 2,2-diethyl- (C8) E2-5; 2,4-hexanediol, 2,3-dimethyl- (C8) E₂₋₅; 2,4-hexanediol, 2,4-dimethyl- (C8) E₂₋₅; 2,4-hexanediol, 2,5-dimethyl- (C8) E₂₋₅, 2,4-hexanediol, 3,3-dimethyl- (C8) E₂₋₅, 2,4-hexanediol, 3,4-dimethyl- (C8) E2-5; 2,4-hexanediol, 3,5-dimethyl- (C8) E2-5; 2,4-hexanediol, 4,5-dimethyl- (C8) E₂₋₅; 2,4-hexanediol, 5,5-dimethyl- (C8) E₂₋₅; 2,5-hexanediol, 2,3-dimethyl- (C8) E₂₋₅, 2,5-hexanediol, 2,4-dimethyl- (C8) E₂₋₅; 2,5-hexanediol, 2,5-dimethyl- (C8) E₂₋₅, 2,5-hexanediol, 3,3-dimethyl- (C8) E₂₋₅; 2,5-hexanediol, 3,4-dimethyl- (C8) E₂₋₅; 3.5-heptanediol, 3-methyl- (C8) E₂₋₅; 1,3-butanediol, 2,2diethyl- (C8) n-BO₁₋₂, 2,4-hexanediol, 2,3-dimethyl- (C8) n-BO₁₋₂, 2,4-hexanediol, 2,4-dimethyl- (C8) n-BO₁₋₂/2,4-hexanediol, 2,5-dimethyl- (C8) n-BO₁₋₂, 2,4hexanediol, 3,3-dimethyl- (C8) n-BO₁₋₂, 2,4-hexanediol, 3,4-dimethyl- (C8) n-BO₁ 2, 2,4-hexanediol, 3,5-dimethyl- (C8) n-BO₁₋₂, 2,4-hexanediol, 4,5-dimethyl- (C8) $n-BO_{1-2}$, 2,4-hexanediol, /5,5-dimethyl-, $n-BO_{1-2}$, 2,5-hexanediol, 2,3-dimethyl-(C8) n-BO₁₋₂; 2,5-hexanediol, 2,4-dimethyl- (C8) n-BO₁₋₂; 2,5-hexanediol, 2,5dimethyl- (C8) n-BO₁₋₂, 2,5-hexanediol, 3,3-dimethyl- (C8) n-BO₁₋₂, 2,5hexanediol, 3,4-dimethyl/ (C8) n-BO₁₋₂; 3,5-heptanediol, 3-methyl- (C8) n-BO₁₋₂; 1,3-propanediol, 2-(1,2/dimethylpropyl)- (C8) n-BO₁; 1,3-butanediol, 2-ethyl-2,3dimethyl- (C8) n-BO₁; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) n-BO₁; 1,4butanediol, 3-methyl-2-isopropyl- (C8) n-BO1; 1,3-pentanediol, 2,2,3-trimethyl-(C8) n-BO₁; 1,3-pentanediol, 2,2,4-trimethyl- (C8) n-BO₁; 1,3-pentanediol, 2,4,4-

trimethyl- (C8) $n-BO_1$; 1,3-pentanediol, 3,4,4-trimethyl- (C8) $/n-BO_1$; 1,4pentanediol, 2,2,3-trimethyl- (C8) n-BO1; 1,4-pentanediol, 2,2,4-trimethyl- (C8) n-BO₁, 1,4-pentanediol, 2,3,3-trimethyl- (C8) n-BO₁,/1,4-pentanediol, 2,3,4-trimethyl-(C8) n-BO₁, 1,4-pentanediol, 3,3,4-trimethyl- (C8) n-BO₁, 2,4/pentanediol, 2,3,4trimethyl- (C8) n-BO₁; 2,4-hexanediol, 4-ethyl/ (C8) n-BO₁/, 2,4-heptanediol, 2methyl- (C8) n-BO₁; 2,4-heptanediol, 3-methyl- (C8) n-BO₁; 2,4-heptanediol, 4methyl- (C8) n-BO₁; 2,4-heptanediol, 5-methyl- (C8) n-BO₁; 2,4-heptanediol, 6methyl- (C8) n-BO₁; 2,5-heptanediol, 2-methyl- (C8) n/BO_1 ; 2,5-heptanediol, 3methyl- (C8) n-BO₁; 2,5-heptanediol, 4-methyl- (C8)/n-BO₁; 2,5-heptanediol, 5methyl- (C8) n-BO1, 2,5-heptanediol, 6-methyl- (C8) n-BO1, 2,6-heptanediol, 2methyl- (C8) n-BO₁, 2,6-heptanediol, 3-methyl- (C8) n-BO₁, 2,6-heptanediol, 4methyl- (C8) n-BO₁, 3,5-heptanediol, 2/-methyl- (C8) n-BO₁, 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) E₁₋₃; 1.3-butanediol. 2-ethyl-2,3-dimethyl- (C8) E₁₋₃. 1,3-butanediol, 2-methyl-2-isopropyl-/ $(\mathbb{C}^8)/\mathbb{E}_{1-3}$; 1,4-butanediol, 3-methyl-2isopropyl- (C8) E₁₋₃, 1,3-pentanedio/, /2,2,3/trimethyl- (C8) E₁₋₃, 1,3-pentanediol, 2,2,4-trimethyl- (C8) E_{1-3} , 1,3-pentanodiol, 2,4,4-trimethyl- (C8) E_{1-3} , 1,3pentanediol, 3,4,4-trimethyl- (C8) E₁₋₃, //pentanediol, 2,2,3-trimethyl- (C8) E₁₋₃; 1,4-pentanediol, 2,2,4-trimethyl- $(//28)//(E_1//3)$; 1,4-pentanediol, 2,3/3-trimethyl- (C8) E_{1-3} ; 1,4-pentanediol, 2,3,4-trimethyl- (\$\psi\$8) E_{1-3} ; 1,4-pentanediol, 3,3,4-trimethyl-(C8) E₁₋₃, 2,4-pentanediol, 2,3,4/tri/methyl- (C8) E₁₋₃, 2,4-hexanediol, 4-ethyl- (C8) E_{1-3} , 2.4-heptanediol, 2-methy/(C8) E_{1-3} , 2.4-heptanediol, 3-methyl- (C8) E_{1-3} . 2.4-heptanediol, 4-methyl- (C8)/ $E_{1/3}$, 2.4-heptanediol, 5-methyl- (C8) E_{1-3} , 2.4heptanediol, 6-methyl- (C8) E_{1-3} , 2,5-heptanediol, 2-methyl- (C8) E_{1-3} , 2,5heptanediol, 3-methyl- (C8) $\not\equiv_{1-3}$, 2,5-heptanediol, 4-methyl- (C8) $\not\equiv_{1-3}$, 2,5heptanediol, 5-methyl-/(C8)/ E_{1-3} ; 2,5-heptanediol, 6-methyl- (C8) E_{1-3} ; 2,6heptanediol, 2-methyl- (C8) E_{1-3} , 2.6-heptanediol, 3-methyl- (C8) E_{1-3} , 2.6heptanediol, 4-methyl- (C8) £₁₋₃; and/or 3,5-heptanediol, 2-methyl- (C8) E₁₋₃;

7. mixtures thereof, and

VIII aromatic diols including: 1-phenyl-1,2-ethanediol; 1-phenyl-1,2-propanediol, 2-phenyl-1,2-propanediol; 3-phenyl-1,2-propanediol; 1-(3-methylphenyl)-1,3-propanediol; 1-(4-methylphenyl)-1,3-propanediol; 2-methyl-1-phenyl-1,3-propanediol; 1-phenyl-1,3-butanediol; 3-phenyl-1,3-butanediol; 1-phenyl-1,4-butanediol; and/or 1-phenyl-2,3-butanediol; and mixtures thereof; and

DX. mixtures thereof;

with the exception of the following specific compounds:

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3,7-Octadiene-2,5-diol, 2,7-dimethyl-; 4,6-Octadiene-1,2/diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 6-Heptene-1,4-diol, 4-methyl-; 4-Octene-3,6-diol; 4-Octene-3,6-diol; 3-Octene-1,2-diol; 3-Nonene-2,5-diol; 7-Nonene-4,5-diol; 7-Nonene-4,5diol; 6-Nonene-2,3-diol; 6-Heptene-2,4-diol, 5-methyl-; 6-Octene-1,2-diol, 7-methyl-3-methylene-; 2,7-Octadiene-1,6-diol, 2,6-dimethyl-; 1,3-Propanédiol, 2-(2methylenepentyl)-; 3-Heptene-2,6-diol, 2,6-dimethyl-; 3-Heptene-2,6-diol, 2,6dimethyl-; 5-Hexene-2,4-diol, 3,5-dimethyl-; 4-Hexene-1,2-diol, 2,5-dimethyl-; 4-Hexene-1,2-diol, 2,5-dimethyl-; 7-Octene-1,6-diol; 2-Hexene-1,4-diol, 2,5-dimethyl-; 2-Hexene-1,4-diol, 2,5-dimethyl-; 1,4-Hexanediol, 5-methyl-2-methylene-; 4-Octene-2,3-diol; Nonene-1,4-diol; 6-Heptene-1,4-diol, 4-methyl-; 6-Octene-3,5-diol, 4methyl-; 2,6-Octadiene-1,8-diol, 2,6-dimethyl-; (8-Hydroxygeraniol); 1-Heptene-3,5-diol, 2,4-dimethyl- 2,4-Hexanediol, 5-methyl-3-methylene-; 2,4-Hexanediol, 5methyl-3-methylene-; 5-Hexene-2,4-diol, 3-ghenyl-2,5-dimethyl-; 5-Hexene-2,4-diol, 3-ethenyl-2,5-dimethyl-; 6-Heptene-2,4-diol, 5-methyl/; 4,9-Decadiene-1,8-diol; 5-Hexene-1,3-diol, 2,4-dimethyl-, 7-Octene-1,3-diol, 2-methyl-, 5-Heptene-3-d-1,2diol, 2,6-dimethyl-; 5-Heptene-3-d-1,2-diol, 2,6-dimethyl-; 4-Nonene-2,8-diol; 4-Nonene-2,8-diol; 5-Hexene-2,3-diol/2,3-dimethyl-, 2-Butene-1,4-diol, 2-butyl-, 2,4-Hexadiene-1,6-diol, 3-(1,1-dimethylethyl)-; 6-Octene-1,4-diol, 7-methyl-; 6-Heptene-1,4-diol, 5,6-dimethyl-; 6-Heptene-1,4-diol, 5,6-dimethyl-; 7-Octene-2,5-diol, 7methyl-, 7-Octene-2,5-diol, 7-methyl-, 4-Hexene-1,3-diol, 2,4-dimethyl-, 4-Octene-2,7-diol; 4-Octene-2,7-diol; 3-Heptene/1,2/diol,\5-methyl-; 3-Heptene-1,2-diol, 5methyl-; 3,7-Octadiene-2,6-diol, 2,6-dijnethyl-; 8 Nonene-1,7-diol; 2,6-Octadiene-1,4-diol, 3,7-dimethyl- (Isorosiridol); \$\frac{4}{2}Hexene-1,4-diol, 2,4-dimethyl-; 1-Heptene-3,4-diol, 6-methyl-; 3-Heptene-1,5-diol, 4,6-dimethyl-; 3-Octene-1,5-diol, 4-methyl-; 3,9-Decadiene-1,2-diol; 7-Octene-2,3/diol, 2-methyl-; 7-Octene-2,3-diol, 2-methyl-, 6-Nonene-2,3-diol; 2,5-Hexanediol//3-methyl-4-methylene-; 6-Heptene-1,4-diol, 2methyl-; 6-Octene-1,5-diol; 1-Octene-3,4-diol; 7-Octene-1,6-diol, 5-methyl-; 7-Octene-1,6-diol, 5-methyl-; 1,3-Hutanediol, 2-methyl-2-(1-methylethenyl)-; 1,3-Pentanediol, 2-ethenyl-4,4-dimethyl-, 3,5-Octanediol, 4-methylene-, 3,5-Octanediol, 4-methylene-; 6-Heptene-2,3/diol,/2-methyl-; 6-Heptene-2,3-diol, 2,6-dimethyl-; 6-Heptene-2,3-diol, 2-methyl-/7-Ochene-1,3-diol, 4-methyl-; 1,3-Butanediol, 2-methyl-2-(1-methyl-2-propenyl)-; /5-Heptene-1,2-diol, 2,6-dimethyl-; 1-Nonene-3,4-diol; 5-Heptene-1,2-diol, 3-methyl-, 3,7-Octadiene-2,6-diol, 2,6-dimethyl-, 6-Heptene-1,3diol, 2,2-dimethyl-; 4-Nonene-1,3-diol; 1,4-Pentanediol, 3-methyl-2-(2-propenyl)-; 1-Nonene-3,4-diol; 8-Nonene-1,2-diol; 3-Octene-1,2-diol; 1,9-Decadiene-4,6-diol; 1,9-

Decadiene-4,6-diol; 5-Hexene-1,3-diol, 2,2-dimethyl-, /1,3-Propanediol, pentenyl)-; 1,3-Propanediol, 2-(3-methyl-1-butenyl)-; 1,3-Propanediol,/2-(3-methyl-1-butenyl)-; 8-Nonene-1,3-diol; 2,4-Octadiene-1,8-diol, /2,7-dimethyl-; 5-Heptene-1,2-diol, 6-methyl-; 3,9-Decadiene-1,2-diol; 3-Nonene-1,2-diol; 6-Nonene-1,2-diol; 4-Hexene-1,3-diol, 2,4-dimethyl-; 2,4-Octadiene-1,7-djol, 3,7-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 4-Hexene-2,3-diol, 3,4dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, \$,4-dimethyl-; 1,3-Butanediol, 2methyl-2-(2-propenyl)-; 6-Heptene-2,5-diol, 4,6-dimethyl-;/6-Heptene-1,5-diol, 6methyl-; 6-Heptene-2,5-diol, 4,6-dimethyl-; 1,5-Pentanediol, 2-(2-propenyl)-; 5-Hexene-2,3-diol, 3,5-dimethyl-; 5-Hexene-2,3-diol, 3,5-dimethyl-; Nonenediol; Octenediol; 5-Hexene-1,3-diol, 3,5-dimethyl-/ 4-Nonene-1,8-diol; 4-Nonene-1,7diol; 4-Nonene-1,6-diol; 6-Nonene-1,4-diol; 7-Nonene-1,4-diol; 8-Nonene-2,5-diol; 5-Heptene-1,2-diol, 2-ethenyl-6-methyl-; A-Hexene-2,3-diol, 2,5-dimethyl-; 5-Heptene-2,3-diol, 2,6-dimethyl-, 1-Heptene-3,5-diol, 2,6-dimethyl-, 1-Heptene-3,5diol, 2,6-dimethyl-; 7-Octene-1,3-diol, 7-methyl-; 1,3-Propanediol, 2-methyl-2-(3methyl-3-butenyl)-; 5-Heptene-1,2-diol, 2,6-dimethyl-; 5,7-Octadiene-2,3-diol, 2,6dimethyl-, 5,7-Octadiene-2,3-diol,/2,6-dimethyl-, 5-Hexene-1,2-diol, 2-ethyl-, 2,4-Nonadiene-4-d-1,7-diol, 6-methyl-; 2,4-Nonadiene-1,6,7-d3-1,7-diol, 6-methyl-; 2,4-Nonadiene-1,7-diol, 6-methyl-/, 7-Octene-2,8-diol, 2-methyl-6-methylene-; 1,3-Butanediol. 3-methyl-2-(4-pentenylidene)-; 1,3-Butanediol, 3-methy1-2-(4pentenylidene)-; 2-Hexene-1,4-diol, 5,5-dimethyl-; 2-Hexene-1,4-diol, 5,5-dimethyl-; 2-Nonene-1,4-diol; 2-Nonene 1,4-diol 7-Octene-2,3-diol, 2-methyl-6-methylene-; 5-Octene-1,3-diol; 7-Octene-1,8-diol, 2-methyl-; 4-Heptene-1,3-diol, 2-methyl-; 4-Octene-2,3-d2-1,2-diol; 4-Octene-2,3-d2-1,2-diol; 5-Heptene-1,2-diol, 3-methyl-; 5-Octene-1,2-diol, 3,7-Octadiene-1,6-diol, 2,6-dimethyl-,5-Heptene-1,2-diol, 2,6dimethyl-, 1,7-Octadiene-4,5-diol, 4,5-dimethyl-, 1,7-Octadiene-4,5-diol, 4,5dimethyl-; 5-Heptene-1,3-diol, 2-methyl-; 5-Heptene-1,3-diol, 2-methyl-; 3-Hexene-1,6-diol, 3,4-dimethyl-; 3-Hexend-1,6-diol, 3,4-dimethyl-; 2,6-Octadiene-1-t-1,8-diol, 2,6-dimethyl-, 2,6-Octadiene-1-1,8-diol, 2,6-dimethyl-, 2,6-Octadiene-1-d-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1,8-diol, 2,6-dimethyl-; 2-Heptene-1,5diol, 6-methyl-; 2-Heptene 1,5-diol, 6-methyl-; 8,9-Decadiene-3,5-diol; 8,9-Decadiene-3,5-diol; 4,6-Nonadiene-1,3-diol, 8-methyl-; 3,5-Nonadiene-1,7-diol, 8methyl-; 5-Heptene-1,3-diol,/2,4-dimethyl-; 2-Nonene-1,9-diol; 2-Nonene-1,9-diol; 1.3-Butanediol, 2-ethyl-2-(2-propenyl)-; 3-Heptene-1,5-diol, 6-methyl-; Pentanediol, 2-ethenyl-4-methyl-; 1,3-Pentanediol, 2-ethenyl-4-methyl-; 5-Hexene-

2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 2,3,4-trimethyl-; 4-Pentene-1,2-diol, 2,3,3-trimethyl-; 1,3-Propanediol, 2-(2-methyl-2-propenyl)-2-(2-propenyl)-, Propanediol, 2-(2-butenyl)-2-(2-propenyl)-; 5-Hexene-1,2-diol, 2-ethyl-; / 1,4-Butanediol, 2-(4-methyl-3-pentenylidene)- (β-Acaridiol); 6-Heptene-1,3-diol, 2methyl-; 2,6-Octadiene-1,8-diol-2-13C, 2,6-dimethyl-; 1-Hexene-3,4-diol, 5,5dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 1-Nonene-3,4-diol; 8-Nonene-2,4-diol; 8-Nonene-2,4-diol; 7-Octene-1,2-diol, 2-methyl/, 1-Nonene-3,5-diol; /2,7-Octadiene-1,6-diol, 2,6-dimethyl-, 7-Octene-1,2-diol, 7/Octene-1,2-diol, 2,5-Octadiene-1,7diol, 3,7-dimethyl-, 1,3-Propanediol, 2-(2,2/dimethylpropylidene)-; 6-Octene-1,2diol, 7-methyl-3-methylene-, 2,8-Decadiene-/1,10-diol; 6-Octene-/1,5-diol, 7-methyl-, 1,3-Butanediol, 2-(1-ethyl-1-propenyl)-; 4-Hexene-1,2-diol, 4-ethyl-3-methyl-; 8-Nonene-1,3-diol; 1,4-Butanediol, 2-(3-methyl-2-butenyl)-3-methylene-; Heptadiene-1,4-diol, 2,5,5-trimethyl-; 2,6-Heptadiene-1,4-diol, 2,5,5-trimethyl-; 8-Nonene-2,4-diol; 2,6-Heptanediol, 4-methylene-; 3/Hexene-3,4-diol, 2,5-dimethyl-; 4-Octene-4,5-diol; 5-Hexene-1,2-diol, /2,3-dimethy/-; 3-Mexene-1,6-diol; 2-ethenyl-2,5-dimethyl-, 3-Hexene-1,5-diol, 2,4-dimethyl-, \(\beta\)-Hexene-1,5-diol, 2,4-dimethyl-, 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 3,6-Octadiené-1,2-diol, 3,7-dimethyl-, 7-Octene-2,3-diol, 6-methyl-/ 7-Octene-2,3-diol,/6-methyl-; 7-Octene-2,3-diol, 6methyl-, 2,5-Octadiene-1,7-diol, //3,#-dimethyl-,/ 6-Octene-1,3-diol, 7-methyl-, Decadienediol; 6-Heptene-1,2-dio/, 2,3-dimethyl-/ 4-Hexene-1,3-dio/, 3,5-dimethyl-; 4-Pentene-1,3-diol, 2-(1/1-dimet)/ylethyl)-; 4-Pentene-1,3-diol, 2-(1,1-dimethylethyl)-1-Heptene-3,5-diol, 6,6-dimethyl; 1-Heptene-3,5-diol, 6,6-dimethyl-, 1,3-Hexanediol, 5-methyl-4-methylene-; 4-Octene-1,2-diol; 2,3-Heptanediol, 3-ethenyl-; 2,3-Heptanediol, 3-ethenyl-; 5-Hexene-1,3-diol, 2,4-dimethyl-; 5-Hexene-1,3-diol, 2,4-dimethyl-; 5-Hexene-1,3-djol, 2,4-djmethyl-; 2,6-Octadiene-1-t-1,8-diol, 3,7dimethyl-; 8-Nonene-2,4-diol;/8-Nonene-2,4-diol; 1,3-Octanediol, 2-methylene-; 8-Nonene-1,3-diol; 5-Heptene-1,4-diol, 3,6-dimethyl-; 5-Heptene-1,4-diol, 2.6dimethyl-; 4-Octene-2,3-diol; 4-Øctene-2,3-diol; 5,7-Octadiene-1,4-diol, dimethyl-, 7-Octene-1,3-diol, 7-methyl-, 2-Heptene-1,5-diol, 5-ethyl-, 2-Heptene-1,5-diol, 5-ethyl-, 1,3-Pentanediol, 2-ethenyl-3-ethyl-, 5-Heptene-2,4-diol, 2,3dimethyl-; 5-Heptene-2,4-diol/2,3-dimethyl-; 8-Nonene-3,4-diol; 8-Nonene-3,4-diol; 5-Hexene-1,3-diol, 4,5-dimethyl-, 5-Hexene-1,3-diol, 4,5-dimethyl-, 4,6-Octadiene-2,3-diol, 3,7-dimethyl-//1,3-Butanediol, 2,2-diallyl-; 1,9-Decadiene-3,8-diol; 2-Heptene-1,4-diol, 5,6-dimethyl-; 2-Heptene-1,4-diol, 5-methyl-; 2-Heptene-1,4-diol, 5,6-dimethyl-; 2-Heptene-1,4-diol, 5-methyl-; 2,8-Decadiene-5,6-diol; 2.7-Octadiene-1,6-diol, 2,5-dimethyl- (8-Hydroxylinalool); 6-Heptene-1,2-diol, 2-methyl-; 5-Hexene-1,3-diol/ 2,3-dimethyl-; 2,6-Octadiene-1,8-diol, 6-methyl-2-(methyl-

13C)-, 1.3-Propanediol, 2-(5-hexenyl)-, 8-Nonene-3.4-diol; 5-Hexene-1.3-diol, 3ethyl-, 7-Octene-3,4-diol; 6-Heptene-1,2-diol, 2-methyl-; 6-Heptene-2,4-diol, 4-(2propenyl)-, 2,6-Octadiene-1,4-diol, 3,7-dimethyl- (Rosiridol); 8-Nonene-3,4-diol; 6-Heptene-2,3-diol, 6-methyl-; 6-Heptene-2,3-diol, 2.6-dimethyl-; 4-Hexene-2,3-diol, 2,5-dimethyl-; 4,6-Octadiene-2,3-diol, 2,6-dimethyl-; 7-Octege-2,3-diol, 2-methyl-6methylene-; 7-Octene-2,3-diol, 6-methyl-; 4,6-Octadiene-2,3-diol, 2,6-dimethyl-; 1,4-Heptanediol, 6-methyl-5-methylene-, 2-Butene-1,4-diol, 2/(4-methyl-3-pentenyl)- (α-Acaridiol); 4-Octene-1,2-diol; 4-Octene-1,2-diol; 7-Octene-2,4-diol; 6-Heptene-2,4diol, 3-methyl-, 6-Heptene-2,4-diol, 3-methyl-, 3-Heptene-2,5-diol, 2,4-dimethyl-, 1,3-Butanediol, 2-(3-methyl-2-butenyl)-, 7-Octene-3,5-diol, 2-methyl-, 7-Octene-3,5-diol, 2-methyl-, 6-Heptene-2,4-diol, 5,5-dimethyl-, 6-Heptene-2,4-diol, 5,5dimethyl-, 1,3-Propanediol, 2-methyl-2-(2-methylallyl)-, 2-Heptene-1,6-diol, 6methyl-, 1,3-Butanediol, 2-allyl-3-methyl-, 2-Nonene-1,4-diol; 5-Hexene-2,3-diol, 4ethenyl-2,5-dimethyl-, 5-Hexene-2,3-diol, 4-ethenyl-2,5-dimethyl- 2-Nonene-1,4diol; 5-Heptene-1,3-diol, 3,6-dimethyl-, 1,5-Hexanediol, 2-(1-methylethenyl)-, and 1,3-Propanediol, 2-(1-pentenyl)-; and

D. mixtures of the above compounds; and

E. mixtures of 8-carbon-diol isomers primarily consisting of: 2,2,4-trimethyl-1,3-pentanediol; 2-ethyl-1,3-hexanediol; 2,2-dimethyl-1,3-hexanediol; 2-ethyl-4-methyl-1,3-pentanediol; 2,5-octanediol; 2,2-dimethyl-2,4-hexanediol; 2-methyl-3,5-heptanediol; and/or 3-methyl-3,5-heptanediol; the level of any individual 1,3-diol being less than about 90% of any mixture.

2. The material of Claim withat is a compound selected from the group consisting of: 1,2-butanediol, 2,3,3-trimethy/-, 3,4-pentanediol, 2,3-dimethyl-, 2,3-hexanediol, 4methyl-, 2,3-hexanediol, 5-methyl-/3,4-hexanediol, 2-methyl-, 3,4-pentanediol, 2,3dimethyl-, 1,3-propanediol, 2-(1,1-dimethylpropyl)-; 1,3-propanediol, dimethylpropyl)-, 1,3-propanediol, 2-(2,2-dimethylpropyl)-, 1,3-butanediol, 2-(1methylpropyl)-; 1,3-butanediøl, 2-ethyl-2,3-dimethyl-, 1,3-butanediol, 2-(2methylpropyl)-; 1,3-butanediol, 2-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2isopropyl-, 1,3-butanediol, 3-methyl-2-propyl-, 1,4-butanediol, 2,2-diethyl-, 1,4butanediol, 2-methyl-2-propyl-, 1,4-butanediol, 2-(1-methylpropyl)-, 1,4-butanediol, 2-ethyl-2,3-dimethyl-, 1,4-butanediol, 2-ethyl-3,3-dimethyl-, 1,4-butanediol, 2-(2methylpropyl)-, 1,4-pentaglediol, 2,2,3-trimethyl-, 1,4-pentanediol, 2,3,3-trimethyl-, 1,5-pentanediol, 2,2,3-trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 1,3-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-3The state of the s

methyl-, 1,4-pentanediol, 2-ethyl-4-methyl-, 1,4-pentanediol, 3-ethyl-2-methyl-, 1,4pentanediol, 3-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-2-methyl-; 1,5-pentanediol, 2-ethyl-4-methyl-, 2,4-pentanediol, 3-ethyl-2-methyl-, 1,3-pentanediol, 2-isopropyl-, 1,3-pentanediol, 2-propyl-, 1,4-pentanediol, 2-isopropyl-, 1,4-pentanediol, 2-propyl-, 1,4-pentanediol, 3-isopropyl-, 2,4-pentanediol, 3-propyl-, 1,3-hexanediol. 2.3dimethyl-; 1,3-hexanediol, 2,5-dimethyl-; /1,3-hexanediol, 3,4-dimethyl-; 1.3hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,5-dimethyl-, 1,4-hexanediol, 2,2dimethyl-; 1,4-hexanediol. 2,3-dimethyl-1,4-hexanediol, 2,4-dimethyl-, 1,4hexanediol, 3,3-dimethyl-; 1.4-hexanediól. 3.4-dimethyl-; 1,4-hexanediol, 3,5dimethyl-, 1,3-hexanediol, 4,5-dimethyl-; 4,4-dimethyl-; 1,4-hexanediol. 1.5hexanediol, 2,2-dimethyl-; 1.5-hexanédiol. 3,4-dimethyl-; 1,5-hexanediol, 3,5dimethyl-: 1,5-hexanediol. 4.5-dimethyl-: 1.6-hexanediol. 2,3-dimethyl-, 1,6hexanediol, 2,4-dimethyl-; 1.6-hexanediol. 3.3-dimethy/-: 2,4-hexanediol, 4,5dimethyl-; 2,5-hexanediol, 2,3-dimethyl-2,5-hexanediol, 2,4-dimethyl-; hexanediol, 3,3-dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3-hexanediol, 4-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,5-hexanediol 3-ethyl-; 1,3-heptanediol, 4-methyl-; 1,3heptanediol, 5-methyl-, 1,3-heptanediol, 6-methyl-, 1,5-heptanediol, 3-methyl-, 1,5heptanediol, 4-methyl-, 1,6-heptanedioi, 3\methyl-, 1,6-heptanediol, 5-methyl-, 2,4heptanediol, 5-methyl-, 2,5-heptanediol, 3-methyl-, 3,5-heptanediol, 2-methyl-, 2,6octanediol, 2,4-hexanediol, 3,3,4-trimethyl-, 2,4/hexanediol, 3,5,8-trimethyl-, 2,4hexanediol, 4,5,5-trimethyl-, 2,5 nexanediol, 3,3/4-trimethyl-, 2,5-hexanediol, 3,3,5trimethyl-, 1,2-propanediol, /3-(butyloxy)-, triethoxylated, 1,2-propanediol, 3-(butyloxy)-, tetraethoxylated/1,2-propanediol/ 3-(2-pentyloxy)-; 1,2-propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3-(2-methyl-1-bupyloxy)-; 1,2-propanediol, 3-(isoamyloxy)-; 1,2-propagediol, 3-(3\methyl-2-butyloxy)-; 1,2-propanediol, (cyclohexyloxy)-; 1,2-propanediol, 3-(1-cyclohex-1-enyloxy)-, 1,3-propanediol, 2-(pentyloxy)-; 1,3-propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol, 2-(iso-amyloxy)-; 1,3propanediol, 2-(3-methyl-2-butyloxy). 1,3-propanediol, 2-(cyclohexyloxy)-, 1,3-2-(1-c/clohex-1-en/loxy)-; 1,2-propanediol, 3-(butyloxy)-. propanediol pentaethoxylated, 1,2-propanediol, /3-(butyloxy)-, hexaethoxylated, 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated, 1,2-propanediol, 3-(butyloxy)-, octaethoxylated, 1,2-propaneriol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol, 3-(butyloxy)-, monopropr cylated; /1,2-propanediol, 3-(butyloxy)-, dibutyleneoxylated, and 1,2propanedial, 3-(butyloxy)-, tributyleneoxylated.

- The material of Claim 1 that is an ether solvent selected from the group 3. consisting of: 1,2-propanediol, 3-(2-pentyloxy)-; 1,2-propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3-(2-methyl-1-butyloxy)-; 1,2-propanediol, 3-(iso-anyloxy)-; 1,2propanediol, 3-(3-methyl-2-butyloxy)-; 1,2-propanediol, 3-(cyclohexyloxy)-; 1,2propanediol, 3-(1-cyclohex-1-enyloxy)-; 1,3-propanediol, 2-(pentyloxy)-; 1,3propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-;/1,3-propanediol, 2-(2-methyl-1-butyloxy)-, 1,3-propanediol, 2-(iso-amyloxy)-; 1,3-propanediol, 2-(3methyl-2-butyloxy)-, 1,3-propanediol, 2-(cyclohexyloxy)-, 1,3-propanediol, 2-(1cyclohex-1-enyloxy)-; 1,2-propanediol, 3/-(butyloxy)-,/ triethoxylated: 3-(butyloxy)-, tetraethoxylated; 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated, 1,2-propanediol, 3-(butyloxy)-, octaethoxylated, 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol, 3-(butyloxy)-, monopropoxylated; 1,2-propanediol, 3/(butyloxy)/, dibutyleneoxylated; and 1,2propanediol, 3-(butyloxy)-, tributyleneoxylated; bis(2-hydroxybutyl)ether, and bis(2hydroxycyclopentyl)ether.
- 4. The material of Claim 1 that is a compound which is a homolog, or analog, of the following compounds in which each homolog, or analog, contains at least one additional CH₂ group and the total number of hydrogen atoms is kept the same by inserting one double bond for each additional CH₂ group:

I. n-propanol;

II. 2-butanol and/or 2-methyl/2/propanol;

III. 2,3-butanediol, 2|3-dimethyl-; 1|2-butanediol, 2,3-dimethyl-; 1,2-butanediol, 3,3-dimethyl-; 2,3-pentanediol, 2-methyl-; 2,3-pentanediol, 3-methyl-; 2,3-pentanediol, 4-methyl-; 2,3-hexanediol; 3,4-hexanediol; 1,2-butanediol, 2-ethyl-; 1,2-pentanediol, 2-methyl-; 1,2-pentanediol, 4-methyl-; and/or 1,2-hexanediol;

IV. 1,3-propanediol, 2-butyl-; 1,3-propanediol, 2,2-diethyl-; 1,3-propanediol, 2-(1-methylpropyl)-; 1,3-propanediol, 2-(2-methylpropyl)-; 1,3-propanediol, 2-methyl-2-propyl-; 1,2-butanediol, 2,3,3-trimethyl-; 1,4-butanediol, 2-ethyl-2-methyl-; 1,4-butanediol, 2-ethyl-3-methyl-; 1,4-butanediol, 2-propyl-; 1,4-butanediol, 2-isopropyl-; 1,5-pentanediol, 2,2-dimethyl-; 1,5-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2,3-dimethyl-; 2,3-pentanediol, 2,3-dimethyl-; 2,3-pentanediol, 2,4-dimethyl-; 2,3-pentanediol, 3,4-dimethyl-; 2,3-pentanediol, 4,4-dimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2-ethyl-; 1,6-hexanediol, 2-methyl-; 1,6-hexanediol, 3-methyl-; 2,3-hexanediol, 3-methy

methyl-; 2,3-hexanediol, 4-methyl-; 2,3-hexanediol, 5-methyl-, 3,4-hexanediol, 2, methyl-; 3,4-hexanediol, 3-methyl-; 1,3-heptanediol; 1,4-; heptanediol; 1,5-heptanediol; and 1,6-heptanediol;

1,3-propanediol, 2-(2-methylbutyl)-; 1,3-propanediol, 2-(1,1-dimethylpropyl)-V. 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3-propanediol, 2-(1-ethylpropyl)-; 1,3propanediol, 2-(1-methylbutyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1.3propanediol, 2-(3-methylbutyl)-; 1,3-propanediol/ 2-butyl-2-methyl-, 1.3propanediol, 2-ethyl-2-isopropyl-; 1,3-propanediol, 2-ethyl-2-propyl-; 1.3-2-methyl-2-(1-methylpropyl)-; propanediol, 1,3-propanediof, 2-methyl-2-(2methylpropyl)-; 1,3-propanediol, 2-tertiary-butyl-2-methyl-; /1,3-butanediol, 1,3-butanediol, 2-(1-methylpropyl)-/ diethyl-; 1.3-butanediol, 2-butyl-: 1,3butanediol. 2-ethyl-2,3-dimethyl-; 1,3-butanediol, 2-(1, 1-dimethylethyl)-; 1,3butanediol. 2-(2-methylpropyl)-; 1,3-butanediol, 2/methyl-2-isopropyl-; 1,3butanediol. 2-methyl-2-propyl-; 1,3-butanediol. ∄-methyl-2-isopropyl-; = 1,3butanediol, 3-methyl-2-propyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2methyl-2-propyl-, 1,4-butanediol, 2-(1-methylpropyl)-; 1,4-butanediol, 2-ethyl-2,3dimethyl-; 1,4-butanediol. 2-ethyl/3,3-dimethyl-; 1.4-butanediol, 2-(1.1dimethylethyl)-; 1,4-butanediol, 2,(2,methylpropyl)-; 1,4-butanediol, 2-methyl-3propyl-, 1,4-butanediol, 3-methyl-2/isopropyl-/ 1,3-pentanediol, 2,2,3-trimethyl-, 1,3-pentanediol, 2,2,4-trimethyl-; 1,3-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2,4,4-trimethyl-, 1,3-pentanediol, 3,4,4/trimethyl-, 1,4-pentanediol, 2,2,3-trimethyl-, 1,4-pentanediol, 2,2,4-trimethyl-; 1,4-pentanediol, 2,3,3-trimethyl-; 1,4-pentanediol, 3,3,4-trimethyl-, 1,5-pentanediol, 2/2,3/trimethyl-, 1,5-pentanediol, 2,2,4-trimethyl-, 1,5-pentanediol, 2,3,3-trimethyl-; 1,5/pentanediol, 2,3,4-trimethyl-; 2,4-pentanediol, 2,3,3-trimethyl-, 2,4-pentanediol//2,3,4-trimethyl-, 1,3-pentanediol, 2-ethyl-2-methyl-1,3-pentanediol, 2-ethyl-3-methyl-; 1,3-pentanediol, 2-ethyl-4-methyl-; 1,3pentanediol, 3-ethyl-2-methyl-//,4-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-3-methyl-; 1,4-pentanediol, 2-ethyl-4-methyl-; 1,4-pentanediol, 3-ethyl-2methyl-; 1,4-pentanediol, 3-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-2-methyl-; 1,5pentanediol, 2-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-4-methyl-; 1,5-pentanediol, 3-ethyl-3-methyl-, 2,4-penjanediol, 3-ethyl-2-methyl-, 1,3-pentanediol, 2-isopropyl-, 1,3-pentanediol, 2-propyl/, 1,4-pentanediol, 2-isopropyl-, 1,4-pentanediol, 2-propyl-, 1,4-pentanediol, 3-isopropyl-, 1,5-pentanediol, 2-isopropyl-, 2,4-pentanediol, 3-1,3-hexanediol, propyl-; 2,2-dimethyl-: 1,3-hexanediol, 2,3-dimethyl-; 1.3hexanediol, 2,4-dimethyl-; 1,3-hexanediol, 2,5-dimethyl-; 1,3-hexanediol, 3.4dimethyl-; 1,3-hexardiol, 3,5-dimethyl-; 1,3-hexardiol, 4,5-dimethyl-; 1,4hexanediol, 2,2-dimethyl-; 1,4-hexanediol, 2,3-dimethyl-; 1,4-hexanediol, 2,4-

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dimethyl-; 1,4-hexanediol. 2,5-dimethyl-; 1.4-hexanediol, 3,3-dimethyl-; 1,4hexanediol. 3,4-dimethyl-; 1,4-hexanediol, 3,5-dimethy/-; 1,3-hexanediol. 4,4dimethyl-; 1.4-hexanediol, 4,5-dimethyl-; 1,4-hexanediol. 5,5-dimethyl-1,5hexanediol. 2,2-dimethyl-; 1,5-hexanediol, 2,3-dimethyl-: 1,5-hexadediol, 2,4dimethyl-; .,5-hexanediol. 2,5-dimethyl-; 1,5-hexánediol, 3,3-dimethyl-; 1.5hexanediol, 3,4-dimethyl-; 1,5-hexanediol, 3,5-dimethyl-; 1,5-hexanediol. 4,5dimethyl-: 1,6-hexanediol, 2,2-dimethyl-; 1,6-hexanediol, 2,3/dimethyl-; 1,6hexanediol. 2,4-dimethyl-: 1,6-hexanediol. 2,5-dimethyl-; 1,6-hexanediol. 3,3dimethyl-; 1,6-hexanediol, 3,4-dimethyl-; 2/4-hexanediol 2.3-dimethyl-; 2,4hexanediol, 2,4-dimethyl-; 2,4-hexanediol, 2,5-dimethyl-: 2,4-hexanediol, 3,3dimethyl-; 2,4-hexanediol, 3,4-dimethyl-2,4-hexanediol/ 3,5-dimethyl-; 2,4hexanediol, 4,5-dimethyl-; 2,4-hexanediol/ 5,5-dimethyl/; 2,5-hexanediol. 2,3dimethyl-; 2,5-hexanediol, 2,4-dimethyl/; 2,5-hexanediol, 2,5-dimethyl-; 2.5hexanediol, 3,3-dimethyl-; 2,5-hexanediol, 3,4-dimethyl-; 2,6-hexanediol, 3.3dimethyl-; 1,3-hexanediol, 2-ethyl-; 1,4-hexanediol, 2-ethyl-; 1,4-hexanediol, 4-ethyl-; 1,5-hexanediol, 2-ethyl-, 2,4-hexanediol, 3-ethyl-; 2,4hexanediol, 4-ethyl-; 2,5-hexanediol/ 3-ethyl-; 1,3-heptanediol, 2-methyl-; 1,3heptanediol, 3-methyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3heptanediol, 6-methyl-; 1,4-heptanediol, 2-methyl-; 1,4-heptanediol, 3-methyl-; 1,4heptanediol, 4-methyl-; 1,4-heptanediol, 5-methyl-; 1,4-heptanediol, 6-methyl-, 1,5heptanediol, 2-methyl-; 1,5-heptanediol, 4-methyl-; 1,5-heptanediol, 4-methyl-; 1,5heptanediol, 5-methyl-; 1,5-heptanediol, 2-methyl-; 1,6-heptanediol, 2-methyl-; 1,6heptanediol, 3-methyl-, 1,6-heptanediol, 4-methyl-, 1,6-heptanediol, 5-methyl-, 1,6heptanediol, 6-methyl-; 2,4-heptanediol, 2-methyl-; 2,4-heptanediol, 3-methyl-; 2,4heptanediol, 4-methyl-; 2,4-heptanediol, 5-methyl-; 2,4-heptanediol, 6-methyl-; 2,5heptanediol, 2-methyl-, 2,5-heptanediol, 3-methyl-, 2,5-heptanediol, 4-methyl-, 2,5heptanediol, 5-methyl-; 2,5-heptanediol, 6-methyl-; 2,6-heptanediol, 2-methyl-; 2,6heptanediol, 3-methyl-; 2,6-heptanediol, 4-methyl-; 3,4-heptanediol, 3-methyl-; 3,5heptanediol, 2-methyl-, 3,5-heptanediol, 3-methyl-; 3,5-heptanediol, 4-methyl-; 2,4octanediol; 2,5-octanediol; 2,6-octanediol; 2,7-octanediol; and/or 3,6-octanediol; 2,4-pentanediol, \$\frac{1}{4},3,3,4-tetramethyl-; 2,4-pentanediol, 3-tertiarybutyl-; 2,4hexanediol, 2,5,5-trimethyl-; 2,4-hexanediol, 3,3,4-trimethyl-; 2,4-hexanediol, 3,3,5trimethyl-, 2,4-hexanediol, 3,5,5-trimethyl-, 2,4-hexanediol, 4,5,5-trimethyl-, 2,5hexanediol, 3,3,4-trimethyl-; and/or 2,5-hexanediol, 3,3,5-trimethyl-; VIII. / Alkoxylated derivatives of C₃₋₈ diols including:

1,2-propanediol (C3) 2(Me-E₁₋₄); 1,2-propanediol (C3) PO₄; 1,2propanediol, 2-methyl- (C4) (Me-E₄₋₁₀); 1,2-propanediol, 2-methyl- (C4) 2(Me-E₁); 1,2-propanediol, 2-methyl- (C4) PO₃; 1,2-propanediol,/2-methyl- (C4) BO₁; 1,3-propanediol (C3) 2(Me-E₆₋₈), 1,3-propanediol (C3) $\sqrt[6]{O}_{5-6}$, 1,3-propanediol, 2,2-diethyl- (C7) E₁₋₇; 1,3-propanediol, 2,2-diethyl- (C//) PO₁; 1,3-propanediol, 2,2-diethyl- (C7) n-BO₁₋₂; 1,3-propanediol, 2,2-dimethyl- (C5) $2(M \in E_{1-2})$; 1,3propanediol, 2,2-dimethyl- (C5) PO₃₋₄; 1,3-propanediol, 2-(1-methylpropyl)- (C7) E₁₋₇; 1,3-propanediol, 2-(1-methylpropyl)- (C7) PO₁; 1,3-propanediol, 2-(1methylpropyl)- (C7) n-BO₁₋₂; 1,3-propanediol, 2-(2/methylpropyl)- (C7) E₁₋₇, 1,3propanediol, 2-(2-methylpropyl)- (C7) PO₁; 1,3/propanediol, /2-(2-methylpropyl)-(C7) n-BO₁₋₂; 1,3-propanediol, 2-ethyl- (C5) (Me E₆₋₁₀); 1,3-propanediol, 2-ethyl-(C5) 2(Me E₁); 1,3-propanediol, 2-ethyl- (C5) PO₃; 1,3-propanediol, 2-ethyl-2methyl- (C6) (Me E_{1-6}); 1,3-propanediol./2-ethyl-2-methyl- (C6) PO_2 ; 1,3propanediol, 2-ethyl-2-methyl- (C6) BO1; 1/3-propanediol, 2-isopropyl- (C6) (Me E₁₋₆); 1,3-propanediol, 2-isopropyl- (C6) PO₂; 1,3-propanediol, 2-isopropyl- (C6) BO₁, 1,3-propanediol, 2-methyl-(C4) 2(Me $\not E_{2-}$ 5); 1,3-propanediol, 2-methyl-(C4)PO₄₋₅, 1,3-propanediol, 2-methyl- (\$\psi_4\$) BO₂, \(1,3\)-propanediol, 2-methyl-2isopropyl- (C7) E_{2-9} , 1,3-propanediøl//2-methy/-2-isopropyl- (C7) PO₁; 1,3propanediol, 2-methyl-2-isop/opyl- $(\rlap/\ /)/n-BO_1/_3$, 1,3-propanediol, 2-methyl-2propyl- (C7) E₁₋₇, 1,3-propanediol, 2/methyl-2-propyl- (C7) PO₁, 1,3-propanediol, 2-methyl-2-propyl- (C7) n-BO₁₋₂, 1/3-propanediol, 2-propyl- (C6) (Me E₁₋₄), 1,3propanediol, 2-propyl- (C6) RO2; 1/,3-propanediol, 2-propyl- (C6) BO1;

1,2-butanediol (C4) /(Me E_{2-8}), 1,2-butanediol (C4) PO_{2-3} , 1,2-2: butanediol (C4) BO₁; 1,2-butanediol, 2,3-dimethyl- (C6) E₁₋₆; 1,2-butanediol, 2,3dimethyl- (C6) n-BO₁₋₂, 1,2-buta/fediol, 2-ethyl- (C6) E₁₋₃, 1,2-butanediol, 2-ethyl-(C6) n-BO₁; 1,2-butanediol, 2-fnethyl-/(C5) (Me E_{1-2}); 1,2-butanediol, 2-methyl-(C5) PO₁; 1,2-butanediol, 3,3/dimethyl- (C6) E_{1-6} ; 1,2-butanediol, 3,3-dimethyl-(C6) n-BO₁₋₂, 1,2-butanediol/3-methyl- (C5) (Me E_{1-2}), 1,2-butanediol, 3-methyl-(C5) PO₁; 1,3-butanediol (C4) 2(Me E₃₋₆); 1,3-butanediol (C4) PO₅; 1,3-butanediol (C4) BO₂, 1,3-butanediol, 2,2,3-trimethyl- (C7) (Me E₁₋₃), 1,3-butanediol, 2,2,3trimethyl- (C7) PO_{1-2} , /1,3-butanediol, 2,2-dimethyl- (C6) (Me E_{3-8}), 1,3butanediol, 2,2-dimethyl- (C6) PO₃, 1,3-butanediol, 2,3-dimethyl- (C6) (Me E₃₋₈); 1,3-butanediol, 2,3-dimethyl- (C6) PO₃, 1,3-butanediol, 2-ethyl- (C6) (Me E_{1-6}), 1,3-butanediol, 2-ethyl/ (C6) PO_{2-3} ; 1,3-butanediol, 2-ethyl- (C6) BO_1 ; 1,3butanediol, 2-ethyl-2-methyl- (C7) (Me E₁); 1,3-butanediol, 2-ethyl-2-methyl- (C7) PO₁, 1,3-butanediol, /2-ethyl-2-methyl- (C7) n-BO₂₋₄; 1,3-butanediol, 2-ethyl-3methyl- (C7) (Me E₁); 1,3-butanediol, 2-ethyl-3-methyl- (C7) PO₁; 1,3-butanediol,

2-ethyl-3-methyl- (C7) n-BO₂₋₄, 1,3-butanediol, 2-isopropyl- (C7) (Me E₁), butanediol, 2-isopropyl- (C7) PO₁, 1,3-butanediol, 2-isopropyl- (C7) n-BO₂/4, 1,3butanediol, 2-methyl- (C5) 2(Me E₁₋₃), 1,3-butanediol, 2-methyl- (C5) PO₄, 1,3butanediol, 2-propyl-(C7) E₂₋₉, 1,3-butanediol, 2-propyl-(C7) PO₁, 1,3-butanediol, 2-propyl- (C7) n-BO₁₋₃, 1,3-butanediol, 3-methyl- (C5)/2(Me E₁₋₃), 1,3/butanediol, 3-methyl- (C5) PO₄; 1,4-butanediol (C4) 2(Me E₂₋₄), 1,4-butanediol (C4) PO₄₋₅; 1,4-butanediol (C4) BO₂, 1,4-butanediol, 2,2,3-trimethyl- (C7) E₂₋₉, 1,4-butanediol, 2,2,3-trimethyl- (C7) PO₁; 1,4-butanediol, 2,2,3/trimethyl- (C7) n-BO₁₋₃; 1,4butanediol, 2,2-dimethyl- (C6) (Me E₁₋₆); 1,4-butanediol, 2,2-dimethyl- (C6) PO₂; 1,4-butanediol, 2,2-dimethyl- (C6) BO1; 1,4-butanediol, 2,3-dimethyl- (C6) (Me E1-6); 1,4-butanediol, 2,3-dimethyl- (C6) PO₂; 1,4/butanediol, 2,3-dimethyl- (C6) BO₁; 1,4-butanediol, 2-ethyl- (C6) (Me E₁₋₄); 1,4-butanediol, 2-ethyl- (C6) PO₂, 1,4butanediol, 2-ethyl- (C6) BO₁, 1,4-butanediol, 2-ethyl-2-methyl- (C7) E₁₋₇, 1,4butanediol, 2-ethyl-2-methyl- (C7) PO1; 1/4-butanediol, 2-ethyl-2-methyl- (C7) n-BO₁₋₂; 1,4-butanediol, 2-ethyl-3/methyl- (C7) E_{1-7} ; /1,4-butanediol, 2-ethyl-3methyl- (C7) PO₁; 1,4-butanediol, 2-ethyl-3-methyl- (C7) n-BO₁₋₂; 1,4-butanediol, 2-isopropyl- (C7) E₁₋₇; 1,4-butanediol, 2-isopropyl-/(C7) PO₁; 1,4-butanediol, 2isopropyl- (C7) n-BO₁₋₂; /1,4-buts/nediol, 2-methyl- (C5) (Me E₆₋₁₀); 1,4butanediol, 2-methyl- (C5) 2(Me F1), 1,4-butanediol, 2-methyl- (C5) PO3, 1,4butanediol, 2-methyl- (C5) BO₁//1,4-butanediol, 2-propyl- (C7) E₁₋₅, 1,4butanediol, 2-propyl- (C7) n-BO₁₋₂; 1,4-butanediol, 3-ethyl-1-methyl- (C7) E₂₋₉; 1,4-butanediol, 3-ethyl-1-methyl- (C7) PO_A; 1,4-butanediol, 3-ethyl-1-methyl- (C7) n-BO₁₋₃; 2,3-butanediol (C4) (Me $E_{6}\sqrt{10}$); 2,3-butanediol (C4) 2(Me E_{1}); 2,3butanediol (C4) PO₃₋₄; 2,3-butanediol (C4) BO₁; 2,3-butanediol, 2,3-dimethyl- (C6) E₃₋₉; 2,3-butanediol, 2,3-dimethyl-(C6) PO₁; 2,3-butanediol, 2,3-dimethyl- (C6) n- BO_{1-3} ; 2,3-butanediol, 2-methyl- (C5) (Me E_{1-5}); 2,3-butanediol, 2-methyl- (C5) PO₂; 2,3-butanediol, 2-methyl (C5) BO₁;

3. 1,2-pentanediol (C5) E₃₋₁₀, 1,2-pentanediol, (C5) PO₁; 1,2-pentanediol, (C5) n-BO₂₋₃, 1,2-pentanediol, 2-methyl (C6) E₁₋₃; 1,2-pentanediol, 2-methyl (C6) n-BO₁; 1,2-pentanediol, 3-methyl (C6) E₁₋₃; 1,2-pentanediol, 3-methyl (C6) n-BO₁; 1,2-pentanediol, 4-methyl (C6) E₁₋₃; 1,2-pentanediol, 4-methyl (C6) n-BO₁; 1,3-pentanediol (C5) 2(Me-E₁₋₂); 1,3-pentanediol (C5) PO₃₋₄; 1,3-pentanediol, 2,2-dimethyl- (C7) (Me-E₁); 1,3-pentanediol, 2,2-dimethyl- (C7) n-BO₂₋₄; 1,3-pentanediol, 2,3-dimethyl- (C7) (Me-E₁); 1,3-pentanediol, 2,3-dimethyl- (C7) n-BO₂₋₄; 1,3-pentanediol, 2,4-dimethyl- (C7) (Me-E₁); 1,3-pentanediol, 2,4-dimethyl- (C7)

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dimethyl- (C7) n-BO₂₋₄; 1,3-pentanediol, 2-ethyl- (C7) E₂₋₉; 1,3-pentanediol, 2ethyl- (C7) PO₁; 1,3-pentanediol, 2-ethyl- (C7) n-BO₁/₃; 1,3-pentanediol, 2-methyl-(C6) 2(Me-E₁₋₆); 1,3-pentanediol, 2-methyl- (C6) PO₂₋₃; 1,3-pentanediol, 2methyl- (C6) BO1; 1,3-pentanediol, 3,4-dimethyl-/(C7) (Me-E1); 1,3-pentanediol, 3,4-dimethyl- (C7) PO₁; 1,3-pentanediol, 3,4-dimethyl- (C7) n-B ϕ_{2-4} ; 1,3pentanediol, 3-methyl- (C6) (Me-E₁₋₆); 1,3-pentanediol, 3-methyl- (C6) PO₂₋₃; 1,3pentanediol, 3-methyl- (C6) BO1; 1,3-pentanediol, 4,4-dimethyl- (C7) (Me-E1); 1,3pentanediol, 4,4-dimethyl- (C7) PO₁; 1,3-pentanediol, 4,4-dimethyl- (C7) n-BO₂₋₄; 1,3-pentanediol, 4-methyl- (C6) (Me-E₁₋₆);/1,3-pentanediol, 4-methyl- (C6) PO₂₋₃; 1,3-pentanediol, 4-methyl- (C6) BO₁; /,4-pentanediol, (C5) 2(Me-E₁₋₂), 1,4pentanediol (C5) PO₃₋₄; 1,4-pentanediol, 2,2-dimethyl-/(C7) (Me- E_1); 1,4pentanediol, 2,2-dimethyl- (C7) PO1; 1,4-pentanediol, 2,2-dimethyl- (C7) n-BO2_4; 1,4-pentanediol, 2,3-dimethyl- (C7) (Me-E₁); 1,4-pentanediol, 2,3-dimethyl- (C7) PO₁; 1,4-pentanediol, 2,3-dimethyl- (C7) n-BO₂₋₄; 1,4-pentanediol, 2,4-dimethyl-(C7) (Me-E₁); 1,4-pentanediol, 2,4-dimethyl- (C7)/PO₁; 1,4-pentanediol, 2,4dimethyl- (C7) n-BO₂₋₄; 1,4-pentanediol, 2-mothyl- (C6) (Me-E₁₋₆); 1,4pentanediol, 2-methyl- (C6) PO2/3; 1,4-pentanediol, 2-methyl- (C6) BO1; 1,4pentanediol, 3,3-dimethyl- (C7) (Me-E₁)/ 1,4-pentanediol, 3,3-dimethyl- (C7) PO₁: 1,4-pentanediol, 3,3-dimethyl- (C7) n-BO₂₋₄; 1,4-pentanediol, 3,4-dimethyl- (C7) (Me-E₁); 1,4-pentanediol, 3,4-dimethyl- (C7) PO₁; 1,4-pentanediol, 3,4-dimethyl-(C7) n-BO₂₋₄, 1,4-pentanediol, 3-methyl- (C6) 2(Me-E₁₋₆); 1,4-pentanediol, 3methyl- (C6) PO₂₋₃; 1,4-pentanediol, \3-methyl- (C6) BO₁; 1,4-pentanediol, 4methyl- (C6) 2(Me-E₁₋₆), 14-pentanediol/4-methyl- (C6) PO₂₋₃; 1,4-pentanediol, 4-methyl- (C6) BO₁; 1,5-pentahediol, (C5) (Me-E₄₋₁₀); 1,5-pentahediol (C5) 2(Me-E₁); 1,5-pentanediol (C5) PO₃; 1,5-pentanediol, 2,2-dimethyl- (C7) E₁₋₇; 1,5pentanediol, 2,2-dimethyl- (\$\psi^7\$) PO1, \$\frac{1}{2}\$,5-pentanediol, 2,2-dimethyl- (\$\psi^7\$) n-BO1-2. 1,5-pentanediol, 2,3-dimeth/l- (C7) E_{1-7} ; 1,5-pentanediol, 2,3-dimethyl- (C7) PO_1 . 1,5-pentanediol, 2,3-dimethyl- (C7)/n-BO₁₋₂, 1,5-pentanediol, 2,4-dimethyl- (C7) E₁₋₇; 1,5-pentanediol, 2,4-dimethyl- (C7) PO₁; 1,5-pentanediol, 2,4-dimethyl- (C7) n-BO₁₋₂; 1,5-pentanedio, 2-ethy/- (C7) E₁₋₅; 1,5-pentanediol, 2-ethyl- (C7) n-BO₁₋ 2, 1,5-pentanediol, 2-methyl- (C6) (Me-E₁₋₄); 1,5-pentanediol, 2-methyl- (C6) PO₂. 1,5-pentanediol, 3,3-dimethyl-(C7) E₁₋₇, 1,5-pentanediol, 3,3-dimethyl-(C7) PO₁, 1,5-pentanediol, 3,3-dimethyl- (C7) n-BO₁₋₂, 1,5-pentanediol, 3-methyl- (C6) (Me- E_{1-4}); 1,5-pentanediol, 3-methyl- (C6) PO₂; 2,3-pentanediol, (C5) (Me- E_{1-3}); 2,3pentanediol, (C5) PO2; 2,3-pentanediol, 2-methyl- (C6) E₁₋₇; 2,3-pentanediol, 2methyl- (C6) PO₁/2,3-pentanediol, 2-methyl- (C6) n-BO₁₋₂; 2,3-pentanediol, 3methyl- (C6) E₁₋₇, 2,3-pentanediol, 3-methyl- (C6) PO₁, 2,3-pentanediol, 3-methyl- 214 -

(C6) n-BO₁₋₂, 2,3-pentanediol, 4-methyl- (C6) E_{1-7} , 2,3-pentanediol, 4-methyl- (C6) PO₁; 2,3-pentanediol, 4-methyl- (C6) n-BO₁₋₂; 2,4-pentanediol, (C5) 2(Me-E₁₋₄); 2,4-pentanediol (C5) PO₄; 2,4-pentanediol, 2,3-dimethyl- (C7) (Me-E₁₋₄); 2,4-pentanediol, 2,3-dimethyl- (C7) PO₂; 2,4-pentanediol, 2,4-dimethyl- (C7) (Me-E₁₋₄); 2,4-pentanediol, 2,4-dimethyl- (C7) PO₂; 2,4-pentanediol, 2-methyl- (C7) (Me-E₅₋₁₀); 2,4-pentanediol, 3,3-dimethyl- (C7) PO₂; 2,4-pentanediol, 3,3-dimethyl- (C6) (Me-E₁₋₄); 2,4-pentanediol, 3,3-dimethyl- (C6) PO₂; 2,4-pentanediol, 3-methyl- (C6) (Me-E₅₋₁₀); 2,4-pentanediol, 3-methyl- (C6) PO₃;

1,3-hexanediol (C6) (Me-E₁₋₅); /1,3-hexanediol (C6) PO₂; 1,3hexanediol (C6) BO₁; 1,3-hexanediol, 2-methyl- (C7) E₂₋₉; 1,3-hexanediol, 2methyl- (C7) PO₁; 1,3-hexanediol, 2-methyl-/(C7) n-BO₁₋₃; 1,3-hexanediol, 2methyl- (C7) BO1; 1,3-hexanediol, 3-methyl-/(C7) E2/9; 1,3-hexanediol, 3-methyl-(C7) PO₁; 1,3-hexanediol, 3-methyl- (C7) n₇BO₁₋₃; 1,3-hexanediol, 4-methyl- (C7) E₂₋₉; 1,3-hexanediol, 4-methyl- (C7) PO₁; 1,3-hexanediol, 4-methyl- (C7) n-BO₁₋₃; 1,3-hexanediol, 5-methyl- (C7) E₂₋₉, 1,1/2-hexanediol, 5-methyl- (C7) PO₁, 1,3- hexanediol, 5-methyl- (C7) n-BO₁₋₃, 1,4-hexanediol (C6) (Me-E₁₋₅), 1,4-hexanediol (C6) PO₂; 1,4-hexanediol (C6) BØ₁; 1,4-hexanediol, 2-methyl- (C7) E₂₋₉; 1,4hexanediol, 2-methyl- (C7) PO1/1,4/hexanediol, 2-methyl- (C7) n-BO1-3, 1,4hexanediol, 3-methyl- (C7) E/2-9; //-hexanediol, 3-methyl- (C7) PO₁; 1,4hexanediol, 3-methyl- (C7) n_1BO_{1-3} / 1,4-hexanediol, 4-methyl- (C7) E_{2-9} , 1,4hexanediol, 4-methyl- (C7) PO₁, A-hexanediol, 4-methyl- (C7) n-BO₁₋₃, 1,4hexanediol, 5-methyl- (C7) E_{2} 1,4-hexanediol, 5-methyl- (C7) PO₁; 1,4hexanediol, 5-methyl- (C7) n-BO1/3, 1,5-hexanediol (C6) (Me-E₁₋₅); 1,5-hexanediol (C6) PO₂, 1,5-hexanediol (C6)/B ϕ_1 , 1,5-hexanediol, 2-methyl- (C7) E₂₋₉, 1,5hexanediol, 2-methyl- (C7) PO_1 , /1,5-hexanediol, 2-methyl- (C7) n-BO₁₋₃, 1,5hexanediol, 3-methyl- (C7) E₂/9; 1,5-hexanediol, 3-methyl- (C7) PO₁; 1,5hexanediol, 3-methyl- (C7) n- $\frac{1}{2}$ 0₁₋₃; 1,5-hexanediol, 4-methyl- (C7) E₂₋₉; 1,5hexanediol, 4-methyl- (C7) $P\phi_1$; 1,5-hexanediol, 4-methyl- (C7) n-BO₁₋₃; 1,5hexanediol, 5-methyl- (C7) $/E_{2-9}$, 1,5-hexanediol, 5-methyl- (C7) PO₁, 1,5hexanediol, 5-methyl- (C7) n-BO₁₋₃; 1,6-hexanediol (C6) (Me-E₁₋₂); 1,6-hexanediol (C6) PO₁₋₂, 1,6-hexanediol/(C6) n-BO₄, 1,6-hexanediol, 2-methyl- (C7) E₁₋₅, 1,6hexanediol, 2-methyl- (C7) n-BO₁₋₂, 1,6-hexanediol, 3-methyl- (C7) E_{1-5} , 1,6hexanediol, 3-methyl- (C7) n-BO₁₋₂, 2,3-hexanediol (C6) E_{1-5} , 2,3-hexanediol (C6) n-BO₁/2,3-hexanediol (C6) BO₁, 2,4-hexanediol (C6) (Me-E₃₋₈), 2,4-hexanediol (C6) PO_3 ; 2,4-hexanediol 2-methyl- (C7) (Me- E_{1-2}); 2,4-hexanediol 2-methyl- (C7) PO_{1-2} ; 2,4-hexanediol/3-methyl- (C7) (Me-E₁₋₂), 2,4-hexanediol 3-methyl- (C7) PO_{1-2} ; 2,4-hexanediol, 4-methyl- (C7) (Me- E_{1-2}); 2,4-hexanediol 4-methyl- (C7)

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PO₁₋₂; 2,4-hexanediol, 5-methyl- (C7) (Me-E₁₋₂); /2,4-hexanediol 5-methyl- (C7) PO₁₋₂; 2,5-hexanediol (C6) (Me-E₃₋₈); 2,5-hexanediol (C6) PO₃; 2,5-hexanediol, 2-methyl- (C7) (Me-E₁₋₂); 2,5-hexanediol 2-methyl- (C7) PO₁₋₂; 2,5-hexanediol, 3-methyl- (C7) (Me-E₁₋₂); 2,5-hexanediol 3-methyl- (C7) PO₁₋₂; 3,4-hexanediol (C6) EO₁₋₅; 3,4-hexanediol (C6) n-BO₁; 3,4-hexanediol (C6) BO₁;

- 5. 1,3-heptanediol (C7) E_{1-7} , 1,3-heptanediol (C7) PO_1 , 1,3-heptanediol (C7) n-BO₁₋₂, 1,4-heptanediol (C7) E_{1-7} , 1,4-heptanediol (C7) PO_1 , 1,4-heptanediol (C7) PO_1 , 1,5-heptanediol (C7) PO_1 , 1,5-heptanediol (C7) PO_1 , 1,5-heptanediol (C7) PO_1 , 1,6-heptanediol (C7) PO_1 , 2,4-heptanediol (C7) PO_1 , 2,4-heptanediol (C7) PO_1 , 2,4-heptanediol (C7) PO_1 , 2,5-heptanediol (C7) PO_1 , 2,5-heptanediol (C7) PO_1 , 2,5-heptanediol (C7) PO_1 , 2,6-heptanediol (C7) PO_1 , 3,5-heptanediol (PO_1)
- 1,3-butanediol,/3-phethyl-2-isopropyl- (C8) PO1; 2,4-pentanediol, 2,3,3-trimethyl- (C8) PO1; 1,3-hytanediol, 2,2-diethyl- (C8) E2-5; 2,4-hexanediol, 2,3-dimethyl- (C8) E_{2-5} ; 2/4-dexanediol, 2,4-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,5-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 3,3-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 3,4-dimethyl- (C8) E₂₋₅, 2/4/hexanediol, 3,5-dimethyl- (C8) E₂₋₅; 2,4-hexanediol, 4,5-dimethyl- (C8) E2-5; \$4,4-hexanediol, 5,5-dimethyl- (C8) E2-5; 2,5-hexanediol, 2,3-dimethyl- (C8) E₂₋₅, 2,5-hexanediol, 2,4-dimethyl- (C8) E₂₋₅; 2,5-hexanediol, 2,5-dimethyl- (C8) $E_{2-5}/2$,5-hexanediol, 3,3-dimethyl- (C8) E_{2-5} , 2,5-hexanediol, 3,4-dimethyl- (C8) E₂₋₅, 3,5-heptanediol, 3-methyl- (C8) E₂₋₅; 1,3-butanediol, 2,2diethyl- (C8) n-BO₁₋₂/2,4-hexanediol, 2,3-dimethyl- (C8) n-BO₁₋₂, 2,4-hexanediol, 2,4-dimethyl- (C8) η -BO₁₋₂, 2,4-hexanediol, 2,5-dimethyl- (C8) n-BO₁₋₂, 2,4hexanediol, 3,3-dimethyl- (C8) n-BO₁₋₂; 2,4-hexanediol, 3,4-dimethyl- (C8) n-BO₁₋ 2, 2,4-hexanediol, 3,5-dimethyl- (C8) n-BO₁₋₂, 2,4-hexanediol, 4,5-dimethyl- (C8) n-BO₁₋₂, 2,4-hexanediol, 5,5-dimethyl-, n-BO₁₋₂, 2,5-hexanediol, 2,3-dimethyl-(C8) n-BO₁₋₂, 7,5-hexanediol, 2,4-dimethyl- (C8) n-BO₁₋₂, 2,5-hexanediol, 2,5dimethyl- (C8)/ $n-BO_{1-2}$; 2,5-hexanediol, 3,3-dimethyl- (C8) $n-BO_{1-2}$; 2,5hexanediol, 3,4-dimethyl- (C8) n-BO₁₋₂, 3,5-heptanediol, 3-methyl- (C8) n-BO₁₋₂, 1,3-propanedjól, 2-(1,2-dimethylpropyl)- (C8) n-BO₁, 1,3-butanediol, 2-ethyl-2,3dimethyl- (78) n-BO₁, 1,3-butanediol, 2-methyl-2-isopropyl- (C8) n-BO₁, 1,4butanediol, /3-methyl-2-isopropyl-/(C8) n-BO₁, 1,3-pentanediol, 2,2,3-trimethyl-(C8) n-BO₁; 1,3-pentanediol, 2,2,4-trimethyl- (C8) n-BO₁; 1,3-pentanediol, 2,4,4-

trimethyl- (C8) n-BO₁; 1,3-pentanediol, 3,4,4-trimethyl- (C8) n/BO₁; 1,4pentanediol, 2,2,3-trimethyl- (C8) n-BO1; 1,4-pentanediol, 2,2,4-trimethyl- (C8) n-BO₁; 1,4-pentanediol, 2,3,3-trimethyl- (C8) n-BO₁; 1,4-pentanediol, 2,3,4-trimethyl-(C8) n-BO₁; 1,4-pentanediol, 3,3,4-trimethyl- (C8) n-BO₁; 2,4-pentanediol, 2,3,4trimethyl- (C8) n-BO₁; 2,4-hexanediol, 4-ethyl- (C8) n-BO₁; 2,4-heptanediol, 2methyl- (C8) n-BO₁, 2,4-heptanediol, 3-methyl- (C8) n-BO₁, 2,4-heptanediol, 4methyl- (C8) n-BO₁; 2,4-heptanediol, 5-methyl- (C8) n-BO₁; 2,4-heptanediol, 6methyl- (C8) n-BO₁; 2,5-heptanediol, 2-methyl-/(C8) n-B \emptyset ₁; 2,5-heptanediol, 3methyl- (C8) n-BO₁; 2,5-heptanediol, 4-methyl- (C8) n-BO₁; 2,5-heptanediol, 5methyl- (C8) n-BO₁; 2,5-heptanediol, 6-methyl- (C8) n/BO₁; 2,6-heptanediol, 2methyl- (C8) n-BO₁; 2,6-heptanediol, 3-methyl- (C8) n-BO₁; 2,6-heptanediol, 4methyl- (C8) n-BO₁; 3,5-heptanediol, 2-methyl- (C8) n-BO₁; 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) E_{1-3} ; 1,3-butanediol, 2-ethyl-2,3-dimethyl- (C8) E_{1-3} ; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) E_{1/3}, 1,4-butanediol, 3-methyl-2isopropyl- (C8) E₁₋₃; 1,3-pentanediol, 2,2,3-trimethyl- (C8) E₁₋₃; 1,3-pentanediol, 2,2,4-trimethyl- (C8) E_{1-3} ; 1,3-pentynediol/2,4,4-trimethyl- (C8) E_{1-3} ; 1,3pentanediol, 3,4,4-trimethyl- (C8) E₁₋₃; 1,4-pentanediol, 2,2,3-trimethyl- (C8) E₁₋₃; 1,4-pentanediol, 2,2,4-trimethyl- (C8) E₁₋₃/1,4-pentanediol, 2,3,3-trimethyl- (C8) E_{1-3} ; 1,4-pentanediol, 2,3,4-trimethyl- (C8) E_{1-3} ; 1,4-pentanediol, 3,3,4-trimethyl-(C8) E₁₋₃; 2,4-pentanediol, 2,3,4-trimethyl-(C8) E₁₋₃; 2,4-hexanediol, 4-ethyl-(C8) E₁₋₃; 2,4-heptanediol, 2-methyl- (C8)/E₁₋₃, 2,4-heptanediol, 3-methyl- (C8) E₁₋₃; 2,4-heptanediol, 4-methyl- (C8) E₁₋₃; 2,4-heptanediol, 5-methyl- (C8) E₁₋₃; 2,4heptanediol, 6-methyl- (C8) E_{1-3} ; 2,5-heptanediol, 2-methyl- (C8) E_{1-3} , 2,5heptanediol, 3-methyl- (C8) E_{1-3} ; 2,5-heptanediol, 4-methyl- (C8) E_{1-3} ; 2,5heptanediol, 5-methyl- (C8) E_{1-3} ; 2,5-heptanediol, 6-methyl- (C8) E_{1-3} ; 2,6heptanediol, 2-methyl-/(C8) $\not\equiv_{1-3}$; 2,6-heptanediol, 3-methyl- (C8) $\not\equiv_{1-3}$; 2,6-heptanediol, 3-methylheptanediol, 4-methyl- (C8) E_{1-3} ; and/or 3,5-heptanediol, 2-methyl- (C8) E_{1-3} ; and IX. mixtures thereof,

with the exception of the following specific compounds:

3,7-Octadiene-2,5-diol, 2,7-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-;

Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 6-Heptene-1,4-diol, 4-methyl-; 4-Octene-3,6-diol; 4-Octene-3,6-diol; 3-Octene-1,2-diol; 3-Nonene-2,5-diol; 7-Nonene-4,5-diol; 7-Nonene-4,5-diol; 6-Nonene-2,3-diol; 6-Heptene-2,4-diol, 5-methyl-; 6-Octene-1,2-diol, 7-methyl-3-methylene-; 2,7-Octadiene-1,6-diol, 2,6-dimethyl-; 1,3-Propanediol, 2-(2-methylene-pentyl)-; 3-Heptene-2,6-diol, 2,6-dimethyl-; 3-Heptene-2,6-diol, 3,6-dimethyl-; 3-Heptene-2,6-diol, 3,6-dimethyl-; 3-Heptene-2,6-diol, 3,6-dimethyl-; 3-Heptene-2,6-diol, 3,6-dimethyl-; 3-Heptene-2,6-diol, 3,6-dimethyl-; 3-Heptene-2,6-diol, 3,6-dimethyl-; 3-

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dimethyl-; 5-Hexene-2,4-diol, 3,5-dimethyl-; 4-Hexene-1/,2-diol, 2,5-dimethyl-; 4-Hexene-1,2-diol, 2,5-dimethyl-, 7-Octene-1,6-diol, 2-Hexene-1,4-diol, 2,5-dimethyl-, 2-Hexene-1,4-diol, 2,5-dimethyl-; 1,4-Hexanediol, 5-methyl-2-methylene-; 4-Octene-2,3-diol; Nonene-1,4-diol; 6-Heptene-1,4-diol, 4-methyl-; 6-Octene-3,5-diol, 4methyl-; 2,6-Octadiene-1,8-diol, 2,6-dimethyl-; (8-Hydroxygeranio); 1-Heptene-3,5-diol, 2,4-dimethyl- 2,4-Hexanediol, 5-methyl-3-methylene-; 2,4-Hexanediol, 5methyl-3-methylene-; 5-Hexene-2,4-diol, 3-ethenyl-2/,5-dimethyl-; 5/Hexene-2,4-diol, 3-ethenyl-2,5-dimethyl-; 6-Heptene-2,4-diol, 5-methyl-; 4,9-Decadiene-1,8-diol; 5-Hexene-1,3-diol, 2,4-dimethyl-; 7-Octene-1,3-diol, 2-methyl-; 5-Heptene-3-d-1,2diol, 2,6-dimethyl-; 5-Heptene-3-d-1,2-diol, 2,6-dimethyl-; 4-Nonene-2,8-diol; 4-Nonene-2,8-diol; 5-Hexene-2,3-diol, 2,3-dimeth/l-; 2-Butene-1,4-diol, 2-butyl-; 2,4-Hexadiene-1,6-diol, 3-(1,1-dimethylethyl)-; 6-Octene-1,4-diol, 7-methyl-; 6-Heptene-1,4-diol, 5,6-dimethyl-; 6-Heptene-1,4-diol,/5,6-dimethyl-, 7-Octene-2,5-diol, 7methyl-, 7-Octene-2,5-diol, 7-methyl-, 4-Hexene-1,3-diol, 2,4-dimethyl-, 4-Octene-2,7-diol; 4-Octene-2,7-diol; 3-Heptene-1,2/diol, 5-methyl-; 3-Heptene-1,2-diol, 5methyl-; 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 8-Nonene-1,7-diol; 2,6-Octadiene-1,4-diol, 3,7-dimethyl- (Isorosiridol), 5-Hexeney 1,4-diol, 2,4-dimethyl-, 1-Heptene-3,4-diol, 6-methyl-, 3-Heptene-1,5-diol, 4,6-dimethyl-; 3-Octene-1,5-diol, 4-methyl-, 3,9-Decadiene-1,2-diol, 7-Octene-2,3-diol, 2/methyl-, 7-Octene-2,3-diol, 2-methyl-, 6-Nonene-2,3-diol; 2,5-Hexanediol, 3/methyl-4-methylene-; 6-Heptene-1,4-diol, 2methyl-; 6-Octene-1,5-diol; 1-Octene-3/4-diol; /7-Octene-1/6-diol, 5-methyl-; 7-Octene-1,6-diol, 5-methyl-; 1/3-Butanediol/ 2-methyl-2-(1-methylethenyl)-, 1,3-Pentanediol, 2-ethenyl-4,4-dimethyl-; 3,5-Octanediol, 4-methylene-; 3,5-Octanediol, 4-methylene-, 6-Heptene-2,3-diol, 2/methyl-, 6-Heptene-2,3-diol, 2,6-dimethyl-, 6-Heptene-2,3-diol, 2-methyl-; 7-Octene-1,3-diol, 4-methyl-; 1,3-Butanediol, 2-methyl-2-(1-methyl-2-propenyl)-; 5-Heptehe-1,2-dio/, 2,6-dimethyl-; 1-Nonene-3,4-diol; 5-Heptene-1,2-diol, 3-methyl-, 3,7-Octadiene-2,6-diol, 2,6-dimethyl-, 6-Heptene-1,3diol, 2,2-dimethyl-, 4-Nonene-1,3-diol, 1,4-Pentanediol, 3-methyl-2-(2-propenyl)-, 1-Nonene-3,4-diol; 8-Nonene-1,2/diol; 3-Octene-1,2-diol; 1,9-Decadiene-4,6-diol; 1,9-Decadiene-4,6-diol; 5-Hexene-1,3-diol, / 2,2-dimethyl-; 1,3-Propanediol, 2-(1pentenyl)-; 1,3-Propanediol, 2-(3-methyl-1-butenyl)-; 1,3-Propanediol, 2-(3-methyl-1-butenyl)-, 8-Nonene-1,3-diol, 2,4-Octadiene-1,8-diol, 2,7-dimethyl-; 5-Heptene-1,2-diol, 6-methyl-; 3,9-Decadiene-1,2-diol; 3-Nonene-1,2-diol; 6-Nonene-1,2-diol; 4-Hexene-1,3-diol, 2,4-dimethyl-; 2,4-Octadiene-1,7-diol, 3,7-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 4/Hexene-2,3-diol, 3,4-dimethyl-; 4-Hexene-2,3-diol, 3,4dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 1,3-Butanediol, 2The state of the s

methyl-2-(2-propenyl)-; 6-Heptene-2,5-diol, 4,6-dimethyl-; 6-Heptene-1,5-diol, 6methyl-; 6-Heptene-2,5-diol, 4,6-dimethyl-; 1,5-Pen/anediol, 2-(2-propenyl)-; 5-Hexene-2,3-diol, 3,5-dimethyl-; 5-Hexene-2,3-diol/ 3,5-dimethyl-; Nonenediol; Octenediol; 5-Hexene-1,3-diol, 3,5-dimethyl-; 4-Nonene-1,8-diol; 4-Nonene-1,7diol; 4-Nonene-1,6-diol; 6-Nonene-1,4-diol; 2-Nonene-1,4-diol; 8-Nonene-2,5-diol; 5-Heptene-1,2-diol, 2-ethenyl-6-methyl-; 4-Hexene-2,3-diol, 2.5-dimethyl-; Heptene-2,3-diol, 2,6-dimethyl-, 1-Heptene-3,5-diol, 2,6-dimethyl-, 1-Heptene-3,5diol, 2,6-dimethyl-; 7-Octene-1,3-diol, 7-methyl-; 1,3-Propanediol, 2-methyl-2-(3methyl-3-butenyl)-; 5-Heptene-1,2-diol, 2,6-dimethyl-; 5,7-Octadiene-2,3-diol, 2,6dimethyl-, 5,7-Octadiene-2,3-diol, 2,6-dimethyl-, 5-Hexene-1,2-diol, 2-ethyl-, 2,4-Nonadiene-4-d-1,7-diol, 6-methyl-; 2,4-Nonafiiene-1,6,7-d3-1,7-diol, 6-methyl-; 2,4-Nonadiene-1,7-diol, 6-methyl-, 7-Octene-2,3-diol, 2-methyl-6-methylene-, 1,3-3-methyl-2-(4-pentenyliden¢)-; Butanediol. 1.3-Butanediol, 3-methyl-2-(4pentenylidene)-, 2-Hexene-1,4-diol, 5,5-dimethyl, 2-Hexene-1,4-diol, 5,5-dimethyl-, 2-Nonene-1,4-diol; 2-Nonene-1,4-diol; 7/Octene-2,3-diol, 2-methyl-6-methylene-; 5-Octene-1,3-diol; 7-Octene-1,3-diol, 2-methyl-; 4-Heptene-1,3-diol, 2-methyl-; 4-Octene-2,3-d2-1,2-diol; 4-Octene-2,3-d2-1,2-diol; 5-Heptene-1,2-diol, 3-methyl-; 5-Octene-1,2-diol, 3,7-Octadiene-1/6-diol//2,6-dimethyl-; 5-Heptene-1,2-diol, 2,6dimethyl-; 1,7-Octadiene-4,5-diol, /4/5-dimethyl-; 1,7-Octadiene-4,5-diol, dimethyl-; 5-Heptene-1,3-diol, 2-methyl-; 5-Heptene-1,3-diol, 2-methyl-; 3-Hexene-1,6-diol, 3,4-dimethyl-, 3-Hexene-1, diol, 3,4-dimethyl-, 2,6-Octadiene-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1,8-diol, 2,6-dimethyl-; 2-Heptene-1,5diol, 6-methyl-; 2-Heptene-1,5-diol, 6-methyl-; 8,9-Decadiene-3,5-diol; 8,9-Decadiene-3,5-diol; 4,6-Nonadiene-1,3-diol, 8-methyl-; 3,5-Nonadiene-1,7-diol, 8methyl-; 5-Heptene-1,3-diol, 2,4/dimethyl-; 2-Nonene-1,9-diol; 2-Nonene-1,9-diol; 1.3-Butanediol, 2-ethyl-2-(2-propenyl)-; 3-Heptene-1,5-diol, 6-methyl-; 1.3-Pentanediol, 2-ethenyl-4-methyl-; 1,3-Pentanediol, 2-ethenyl-4-methyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 2,3,4-trimethyl-; 4-Pentene-1,2-diol, 2,3,3-trimethyl-; /1,3-Propanediol, 2-(2-methyl-2-propenyl)-2-(2-propenyl)-, 1,3-2-(2-butenyl)-2-(2-propenyl)-; 5-Hexene-1,2-diol, Propanediol. 2-ethyl-Butanediol, 2-(4-methyl-3-pentenylidene)- (β-Acaridiol), 6-Heptene-1,3-diol, 2methyl-; 2,6-Octadiene-1,8-diol-2-13C, 2,6-dimethyl-; 1-Hexene-3,4-diol, 5,5dimethyl-, 1-Hexene-3,4-diol, 5,5-dimethyl-; 1-Nonene-3,4-diol; 8-Nonene-2,4-diol; 8-Nonene-2,4-diol; 7-Octehe-1,2-diol, 2-methyl-; 1-Nonene-3,5-diol; 2,7-Octadiene-1,6-diol, 2,6-dimethyl-, 7-Octene-1,2-diol, 7-Octene-1,2-diol, 2,5-Octadiene-1,7The state of the s

diol, 3,7-dimethyl-; 1,3-Propanediol, 2-(2,2-dimethylpropylidene)-; 6-Octene-1,2diol, 7-methyl-3-methylene-; 2,8-Decadiene-1,10-diol; 6-Octene-1,5-diol, 7-methyl-; 1,3-Butanediol, 2-(1-ethyl-1-propenyl)-; 4-Hexene-1/2-diol, 4-ethyl-3-methyl-; 8-Nonene-1,3-diol: 1,4-Butanediol, 2-(3-methyl-2-butenyl)-3-methylene-, Heptadiene-1,4-diol, 2,5,5-trimethyl-, 2,6-Heptadiene-1,4-diol, 2,5,5-trimethyl-, 8-Nonene-2,4-diol; 2,6-Heptanediol, 4-methylene-;/3-Hexene-3,4-diol, /2,5-dimethyl-; 4-Octene-4,5-diol; 5-Hexene-1,2-diol, 2,3-dimethyl-; 3-Hexene-1,6-diol, 2-ethenyl-2,5-dimethyl-; 3-Hexene-1,5-diol, 2,4-dimethyl-; 3-Hexene-1,5-diol, 2,4-dimethyl-; 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 3,6-Øctadiene-1,2-diol, /3,7-dimethyl-; 7-Octene-2,3-diol, 6-methyl-, 7-Octene-2,3-diol, 6-methyl-, 7-Octene-2,3-diol, 6methyl-; 2,5-Octadiene-1,7-diol, 3,7-dimethyl-; 6-Octene-1,3-diol, Decadienediol; 6-Heptene-1,2-diol, 2,3-dimethyl-; 4-Hexene-1,3-diol, 3,5-dimethyl-; 4-Pentene-1,3-diol, 2-(1,1-dimethylethyl)-, 4-Pentene-1,3-diol, 2-(1,1-dimethylethyl)-1-Heptene-3,5-diol, 6,6-dimethyl-; 1-Heptene-3,5-djol, 6,6-dimethyl-; Hexanediol, 5-methyl-4-methylene-, 4-Octene-1,2-diol; 2,3-Heptanediol, 3-ethenyl-; 2,3-Heptanediol, 3-ethenyl-; 5-Hexene-1,3-diol, 2,4-dimethyl-, 5-Hexene-1,3-diol, 2,4-dimethyl-; 5-Hexene-1,3-diol, 2 4,4-dimethyl-; 2,6-Octadiene-1-t-1,8-diol, 3,7dimethyl-; 8-Nonene-2,4-diol; 8-Nonene-2,4-diol; 1,3-Octanediol, 2-methylene-; 8-Nonene-1,3-diol; 5-Heptene-1,4/dibl, 3,6-dimethyl-; 5-Heptene-1,4-diol. 2,6dimethyl-, 4-Octene-2,3/diol, /4-Octene-2,3-diol; 5,7-Octadiene-1,4-diol. 2,7dimethyl-; 7-Octene-1,3/diol, //methyl-; 2-Heptene-1,5-diol, 5-ethyl-; 2-Heptene-1,5-diol, 5-ethyl-; 1,3-Pentanediol, 2-ethenyl-3-ethyl-; 5-Heptene-2,4-diol, 2,3dimethyl-; 5-Heptene-2,4-diol, 2,3-dimethyl-; 8-Nonene-3,4-diol; 8-Nonene-3,4-diol; 5-Hexene-1,3-diol, 4,5-dimethyl-, 5-Hexene-1,3-diol, 4,5-dimethyl-, 4,6-Octadiene-2,3-diol, 3,7-dimethyl-; 1,3-Butanediol, /2,2-diallyl-; 1,9-Decadiene-3,8-diol; 2-Heptene-1,4-diol, 5,6-dimeth/l-, 2-Heptene-1,4-diol, 5-methyl-; 2-Heptene-1,4-diol, 5,6-dimethyl-; 2-Heptene/1,4-diol, /5-methyl-; 2,8-Decadiene-5,6-diol: Octadiene-1,6-diol, 2,6-dimethyl- (8-Hydroxylinalool); 6-Heptene-1,2-diol, 2-methyl-5-Hexene-1,3-diol, 2,3-dimethyl/; 2,6-Octadiene-1,8-diol, 6-methyl-2-(methyl-13C)-; 1,3-Propanediol,/2-(5-hexenyl)-; 8-Nonene-3,4-diol; 5-Hexene-1,3-diol, 3ethyl-; 7-Octene-3,4-diøl; 6-Heptene-1,2-diol, 2-methyl-; 6-Heptene-2,4-diol, 4-(2propenyl)-; 2,6-Octadiene-1,4-diol, 3,7-dimethyl- (Rosiridol); 8-Nonene-3,4-diol; 6-Heptene-2,3-diol, 6-methyl-, 6-Heptene-2,3-diol, 2,6-dimethyl-, 4-Hexene-2,3-diol, 2,5-dimethyl-; 4,6-Octadiene-2,3-diol, 2,6-dimethyl-; 7-Octene-2,3-diol, 2-methyl-6methylene-, 7-Octene-2,3-diol, 6-methyl-, 4,6-Octadiene-2,3-diol, 2,6-dimethyl-, 1,4-Heptanediol, 6-methyl-5-methylene-, 2-Butene-1,4-diol, 2-(4-methyl-3-pentenyl)- (α-Acaridiol); 4-Octene-1,2-diol; 4-Octene-1,2-diol; 7-Octene-2,4-diol; 6-Heptene-2,4diol, 3-methyl-; 6-Heptene-2,4-diol, 3-methyl-; 3-Heptene-2,5-diol, 2,4-dimethyl-; 1,3-Butanediol, 2-(3-methyl-2-butenyl)-; 7-Octene-3,5-diol, 2-methyl-; 6-Heptene-2,4-diol, 5,5-dimethyl-; 6-Heptene-2,4-diol, 5,5-dimethyl-; 1,3-Propanediol, 2-methyl-2-(2-methylallyl)-; 2-Heptene-1,6-diol, 6-methyl-; 1,3-Butanediol, 2-allyl-3-methyl-; 2-Nonene-1,4-diol; 5-Hexene-2,3-diol, 4-ethenyl-2,5-dimethyl-; 5-Hexene-2,3-diol, 4-ethenyl-2,5-dimethyl- 2-Nonene-1,4-diol; 5-Heptene-1,3-diol, 3,6-dimethyl-; 1,5-Hexanediol, 2-(1-methylethenyl)-; and 1,3-Propanediol, 2-(1-pentenyl)-

- 5. The material of Claim 1 that is a mixture of the compounds A., B., and/or C.
- 6. The material of Claim 1 which is a mixture of 8-carbon-diol isomers primarily consisting of: 2,2,4-trimethyl-1,3-pentanediol; 2-ethyl-1,3-hexanediol; 2,2-dimethyl-1,3-pentanediol; 2-ethyl-3-methyl-1,3-pentanediol; 3,5-octanediol; 2,2-dimethyl-2,4-hexanediol; 2-methyl-3,5-heptanediol; and/or 3-methyl-3,5-heptanediol, the level of any individual diol isomer being less than about 90% of any mixture.
- 7. The material of Claim 6 wherein the level of any individual diol isomer is less than about 80% of any mixture.
- 8. The material of Claim 6 wherein the level of any individual diol isomer is less than about 70% of any mixture.
- 9. The material of Claim 6 wherein the level of any individual diol isomer is less than about 60% of any mixture.
- 10. The material of Claim 6 wherein the level of any individual diol isomer is less than about 50% of any mixture.
- 11. An aqueous, stable, fabric softener composition comprising:
 - A. from about 2% to about 80% of fabric softener active selected from the group consisting of:
 - 1. fabric softener compound having the formula:

(1)

 $\left[(R)_{4-m} - N^{(+)} - [(CH_2)_n - Y - R^{\frac{1}{2}}_m] \right] X^{(-)}$

wherein each R substituent is H, or a short chain C_1 - C_6 alkyl or hydroxyalkyl group, benzyl, or mixtures thereof; each m is 2 or 3; each n is from 1 to about 4; each Y is -O-(O)C-, -(R)N-(O)C, -C(O)-N(R)-, or -C(O)-O-, but not -OC(O)O-; the sum of carbons in each R^1 , or YR^1 when Y is -O-(O)C- or -(R)N-(O)C-, being C6-C22, but when the sum of carbons in one R^1 , or YR^1 , is less than about 12, then the other R^1 , or YR^1 , sum is at least about 16, with each R^1 being a long chain hydrocarbyl, or substituted hydrocarbyl substituent group, and for R^1 , or YR^1 , C_{16} - C_{20} hydrocarbyl or substituted hydrocarbyl substituent groups, the Iodine Value of a YR^1 fatty acid which contains this R^1 group is from about 20 to about 140, and for R^1 , or YR^1 , C_8 - C_{14} , hydrocarbyl, or substituted hydrocarbyl substituent groups, the Iodine Value of a fatty acid which contains this R^1 group is about 10 or less;

2. fabric softener compound having the formula:

R₃ N(+) CH₂CH (2)

wherein each Y, R, R¹, and X⁽⁻⁾ have the same meanings as before; and

3. mixtures thereof:

B. less than about 40% by weight of the composition of principal solvent having a ClogP of from about 0.15 to about 0.64, and at least some degree of asymmetry, said principal solvent containing insufficient amounts of solvents selected from the group consisting of 2,2,4-trimethyl-1,3-pentane diol; the ethoxylate, diethoxylate, or triethoxylate derivatives of 2,2,4-trimethyl-1,3-pentane diol, and/or 2-ethylhexyl-1,3-diol, to provide an aqueous stable composition by themselves;

C. optionally an effective amount, sufficient to improve clarity, of low molecular weight water soluble solvents like ethanol, isopropanol, propylene glycol, 1,3-propanediol, and propylene carbonate, said

water soluble solvents being at a level that will not form clear compositions by themselves:

- D. optionally, an effective amount to improve clarity, of water soluble calcium and/or magnesium salt; and
- E. the balance being water.
- 12. The aqueous, stable, fabric softener composition of Claim 11 comprising:

 A. from about 13% to about 75%
 - A. from about 13% to about 75% of said fabric softener active selected from the group consisting of:
 - 1. fabric softener compound having the formula:

$$\left[\begin{array}{c} (R)_{4-m} - N^{(+)} - [(CH_2)_m] - Y - R^{\frac{1}{2}}_m \end{array} \right]_{X^{(-)}}$$
 (1)

wherein each R substituent is H, or a short chain C₁-C₃ alkyl or hydroxyalkyl group, benzyl or mixtures thereof; each m is 2; each n is from 2 to about 3; each V is -O-(O)C-; each R¹ is a long chain C₉-C₁₉ hydrocarbyl, and for R¹ C₁₅-C₁₉ hydrocarbyl or substituted hydrocarbyl substitutent groups, the Iodine Value of the corresponding fatty acid of this R group is from about 50 to about 130; and for R¹ C₇-C₁₃, or substituted hydrocarbyl substituent groups, the Iodine Value of the corresponding fatty acid of R¹ group is about 10 or less;

fabric softener compound having the formula:

$$\begin{bmatrix} R_3 N^{(+)} C H_2 C H \\ C H_2 Y R^1 \end{bmatrix} X^{(-)}$$
(2)

wherein each Y, R, R¹, and $X^{(-)}$ have the same meanings as before;

/3. mixtures thereof;

B from about 10% to about 35% by weight of the composition of said principal solvent, said principal solvent having a ClogP of from about 0.25 to about 0.62;

Optionally, from about 1% to about 10%, and sufficient to improve clarity, of low molecular weight water soluble solvents like ethanol, isopropanol, propylene glycol, 1,3-propanediol, propylene carbonate, said water soluble solvents being at a level that will not form clear compositions by themselves;

D. optionally, from 0% to about 2%, and sufficient to improve clarity, achieve the desired viscosity, or improve clarity and achieve the desired viscosity, of water solvible calcium and/or magnesium salt; and

E. from about 10% to about 80% water.

13. The aqueous, stable, fabric softener composition of Claim 12 comprising:

A. from about 17% to about 70% of said fabric softener active selected from the group consisting of:

1. fabric softener compound having the formula:

$$\left[(R)_{4-m} - N^{(+)} - [(CH_2)_n - Y - R^{\frac{1}{2}}]_m \right] \times^{(-)}$$
 (1)

wherein each R substituent is H, or a short chain C_1 - C_3 alkyl or hydroxyalkyl group benzyl or mixtures thereof; each m is 2; each n is from 2 to about 3; each Y is -O-(O)C-; each R is a long chain C7-C17 hydrocarbyl, or substituted hydrocarbyl substituent, and for R C15-C 7 hydrocarbyl or substituted hydrocarbyl substituent groups, the Iodine Value of the corresponding fatty acid of this R group is from about 70 to about 115; and for R C7-C13, or substituted hydrocarbyl substituent groups, the Iodine Value of the corresponding fatty acid of R group is about 5 or less;

2. fabric softener compound having the formula:

$$\begin{bmatrix} R_3 & N^{(+)} & CH_2 & CH_2 & CH_2 & YR^1 \\ & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & \\ & & \\ & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ &$$

wherein each Y, R, R^1 , and $X^{(-)}$ have the same meanings as before; and

3. mixtures thereof:

- B. from about 12% to about 35% by weight of the composition of said principal solvent, said principal solvent having a ClogP of from about 0.40 to about 0.60;
- C. optionally, from about 2% to 8%, and sufficient to improve clarity, of low molecular weight water soluble solvents like ethanol, isopropanol, propylene glycol, 1,3-propanediol, propylene carbonate;
- D. optionally, from about 0.05% to about 0.5%, and sufficient to improve clarity, achieve the desired viscosity, or improve clarity and achieve the desired viscosity, of water soluble calcium and/or magnesium salt; and
- E. from about 20% to about 80% water
- 14. The aqueous, stable, fabric softener composition of Claim 13, said composition being clear and comprising:
 - A. from about 19% to about 66% by weight of the composition, of said fabric softener:
 - 1. fabric softener compound having the formula:

$$\left[(R)_{4-m} - N(t) - I(CH_2)_n (Y-R)_m \right] \chi^{(-)}$$
 (1)

wherein each R substituent is methyl, ethyl, propyl, hydroxyethyl, benzyl or mixtures thereof; each n is 2; each R¹ is a long chain C₁₃-C₁₇ straight chain alkyl or alkylene, and for R¹ C₁₅-C₁₇ hydrocarbyl or substituted hydrocarbyl substituent groups, the Iodine Value of the corresponding fatty acid of this R¹ group is from about 70 to about 115;

- B. from about 14% to about 35% by weight of the composition of said principal solvent, said principal solvent having a ClogP of from about 0.40 to about 0.60;
- C. optionally, from about 2% to 8%, and sufficient to improve clarity, of low molecular weight water soluble solvents selected from the group consisting of ethanol, isopropanol, propylene glycol, 1,3-propanediol, and propylene carbonate,

- D optionally, from about 0.1% to about 0.25%, and sufficient to improve clarity, achieve the desired viscosity, or improve clarity and achieve the desired viscosity, of water soluble calcium or magnesium chloride, acetate, or nitrate; and
- E. from about 30% to about 70% water.
- 15. The composition of Claim 11 wherein said/ClogP is from about 0.25 to about 0.62.
- 16. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of:
 n-propanol; 2-butanol; 2-methyl-2-propanol, and mixtures thereof.
- 17. The composition of any of Claims 11-13 wherein said principal solvent is selected from the group consisting of: 2/3-butanediol, 2,3-dimethyl-; 1,2-butanediol, 2,3-dimethyl-; 1,2-butanediol, 3,3-dimethyl-; 2,3-pentanediol, 2-methyl-; 2,3-pentanediol, 3-methyl-; 2,3-pentanediol; 3,4-hexanediol; 1,2-butanediol, 2-ethyl-; 1,2-pentanediol, 2-methyl-; 1,2-pentanediol, 3-methyl-; 1,2-pentanediol, 4-methyl-; 1,2-hexanediol, and mixtures thereof;
- 18. The composition of Claim 17 wherein said principal solvent is selected from the group consisting of:

 1,2-butanediol, 2,3-dimethyl-; 1,2-butanediol, 3,3-dimethyl-; 2,3-pentanediol, 2-methyl-; 2,3-pentanediol, 3-hexanediol; 3,4-hexanediol; 1,2-butanediol, 2-ethyl-; 1,2-pentanediol, 2-methyl-; 1,2-pentanediol, 3-methyl-; 1,2-pentanediol, 4-methyl-; 1,2-pentanediol; and mixtures thereof.
- 19. The composition of Claim 18 wherein said principal solvent is selected from the group consisting of:
 1,2-butanediol, 2-ethyl-, 1,2-pentanediol, 2-methyl-, 1,2-pentanediol, 4-methyl-, and 1,2-hexanediol; and mixtures thereof.
- 20. The composition of Claim 19 wherein said principal solvent is 1,2-hexanediol.
- 21. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of: 1,3-propanediol, 2-butyl-; 1,3-propanediol, 2,2-diethyl-; 1,3-propanediol, 2-(1-methylpropyl)-; 1,3-propanediol, 2-(2-

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methylpropyl)-; 1,3-propanediol, 2-methyl-2-propyl-; 1,2-butanediol, 2,3,3-trimethyl-; 1,4-butanediol, 2-ethyl-2-methyl-; 1,4-butanediol, 2-ethyl-3-methyl-; 1,4-butanediol, 2-propyl-; 1,4-butanediol, 2-isopropyl-; 1,5-pentanediol, 2,2-dimethyl-; 1,5-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2,3-dimethyl-; 2,3-pentanediol, 2,4-dimethyl-; 2,3-pentanediol, 2,4-dimethyl-; 2,3-pentanediol, 3,4-dimethyl-; 2,3-pentanediol, 4,4-dimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2-ethyl-; 1,6-hexanediol, 2-methyl-; 1,6-hexanediol, 3-methyl-; 2,3-hexanediol, 2-methyl-; 2,3-hexanediol, 4-methyl-; 2,3-hexanediol, 5-methyl-; 3,4-hexanediol, 2-methyl-; 3,4-hexanediol, 3-methyl-; 1,3-heptanediol; 1,4-heptanediol; 1,5-heptanediol; 1,6-heptanediol; and mixtures thereof.

- 22. The composition of Claim 21 wherein said principal solvent is selected from the group consisting of:

 1,3-propanediol, 2-butyl-; 1,4-butanediol, 2-propyl-; 1,5-pentanediol, 2-ethyl-; 2,3-pentanediol, 2,3-dimethyl-; 2,3-pentanediol, 2,4-dimethyl-; 2,3-pentanediol, 3,4-dimethyl-; 2,3-pentanediol, 4-dimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 1,6-hexanediol, 2-methyl-; 1,6-hexanediol, 3-methyl-; 1,3-heptanediol; 1,4-heptanediol; 1,5-heptanediol; and mixtures thereof.
- 23. The composition of Claim 22 wherein said principal solvent is selected from the group consisting of:

 2,3-pentanediol, 2,3-dimethyl-; 2,3-pentanediol, 2,4-dimethyl-; 2,3-pentanediol, 3,4-dimethyl-; 2,3-pentanediol, 4,4-dimethyl-; 3,4-pentanediol, 2,3-dimethyl-; and mixtures thereof.
- The composition of any of Claims 11-15 wherein said principal solvent is 24. selected from the group consisting of: 1,3-propanediol, 2-(2-methylbutyl)-; 1,3propanediol, 2-(1,1-dimethylpropyl)- 1,3-propanediol, 2-(1,2-dimethylpropyl)-, 1,3propanediol, 2-(1-ethylpropyl)-; 1,3-propanediol, 2-(1-methylbutyl)-; 1.3propanediol, 2-(2,2-dimethylpropyl)-, 1,3-propanediol, 2-(3-methylbutyl)-, 1,3propanediol, 2-butyl-2-methyl-, 1,3-propanediol, 2-ethyl-2-isopropyl-; propanediol, 2-ethyl-2-propyl-, 1,3-propanediol, 2-methyl-2-(1-methylpropyl)-, 1,3propanediol. 2-methyl-2-(2-methylpropyl)-; 1,3-propanediol, 2-tertiary-butyl-2methyl-; /1,3-butanediol, 2,2-diethyl-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3butanediol, 2-butyl-; 1,3-butanediol, 2-ethyl-2,3-dimethyl-; 1,3-butanediol, 2-(1,1dimethylethyl)-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-methyl-2-

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isopropyl-, 1,3-butanediol, 2-methyl-2-propyl-, 1,3-butanediol, 3-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2-propyl-; 1,4-butanediol, 2,2-d/ethyl-; 1,4-butanediol, 2methyl-2-propyl-, 1,4-butanediol, 2-(1-methylpropyl)-, 1/4-butanediol, 2-ethyl-2,3dimethyl-: 1,4-butanediol, 2-ethyl-3,3-dimethyl-; 1,4-butanediol, 2-(1,1dimethylethyl)-; 1,4-butanediol, 2-(2-methylpropyl)-;/1,4-butanediol, 2-methyl-3propyl-, 1,4-butanediol, 3-methyl-2-isopropyl-; 1,3-pentanediol, 2,2,3-trimethyl-; 1,3-pentanediol, 2,2,4-trimethyl-, 1,3-pentanediol, 2,3,4-trimethyl-, 1,3-pentanediol, 2,4,4-trimethyl-; 1,3-pentanediol, 3,4,4-trimethyl-;/1,4-pentanediol, 2,2,3-trimethyl-; 1,4-pentanediol, 2,2,4-trimethyl-; 1,4-pentanediol, 2,3,3-trimethyl-/ 1,4-pentanediol, 2,3,4-trimethyl-, 1,4-pentanediol, 3,3,4-trimethyl-, 1,5-pentanediol, 2,2,3-trimethyl-, 1,5-pentanediol, 2,2,4-trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 1,5-pentanediol, 2,3,4-trimethyl-, 2,4-pentanediol, 2,3,3-trimethyl-, 2,4-pentanediol, 2,3,4-trimethyl-, 1,3-pentanediol, 2-ethyl-2-methyl-; 1,3 pentanediol. 2-ethyl-3-methyl-: pentanediol, 2-ethyl-4-methyl-; 1,3-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-3-methyl-; 1,4-pentanediol, 2-ethyl-4methyl-; 1,4-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 3-ethyl-3-methyl-; 1,5pentanediol, 2-ethyl-2-methyl-, 1,5-pentanediol/ 2-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-4-methyl-, 1,5-pentanedjól, 3/ethyl-5/methyl-, 2,4-pentanedjól, 3-ethyl-2methyl-; 1,3-pentanediol, 2-iso/propyl-; 1,3-pentanediol, 2-propyl-; 1,4-pentanediol, 2-isopropyl-; 1,4-pentanediof, 2-propyl-; / 1,4-pentanediol. 3-isopropyl-: 1,5pentanediol, 2-isopropyl-; 2,4-pentanediol, 3/propyl-; 1,3-hexanediol, 2,2-dimethyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,4-dimethyl-, 1,3-hexanediol, 2,5dimethyl-; 1,3-hexanediol, 3.4-dimethyl-; 1,3-hexanediol, 3,5-dimethyl-; 1.3hexanediol, 4,4-dimethyl-; 1,3/hexanediol. 1.4-hexanediol, 4,5-dimethyl-; 2,2dimethyl-; 1,4-hexanediol, -dimethyl-; 1,4-hexanediol, 2,4-dimethyl-; 1,4-1.4-hexanediol, hexanediol, 2,5-dimethyl-; 3,3-dimethyl-; 1,4-hexanediol, 3,4-1.4-hexanediol, dimethyl-; 3/5-dimethyl-; 1,4-hexanediol, 4,5-dimethyl-; 1,4hexanediol. 5,5-dimethyl-; 5-héxanediol 2,2-dimethyl-; 1,5-hexanediol, 2,3dimethyl-; 1,5-hexanediol, 2,4/dimethyl-; 1,5-hexanediol. 2,5-dimethyl-; 1,5hexanediol, 3,3-dimethyl-; 1,5-hexanediol. 3.4-dimethyl-; 1,5-hexanediol, 3,5dimethyl-; 1,5-hexanediol, 4,5-dimethyl-; 1,6-hexanediol, 2,2-dimethyl-; 1,6hexanediol, 2,3-dimethyl-; 1,6-hexanediol, 2.4-dimethyl-; 1,6-hexanediol, 2,5dimethyl-; 1,6-hexanediol, 3,3-dimethyl-; 1,6-hexanediol, 3,4-dimethyl-; 2,4hexanediol, 2,3-dimethyl-; 2,4-hexanediol. 2,4-dimethyl-; 2,4-hexanediol, 2,5dimethyl-; 2,4-hexanediol 3,3-dimethyl-; 2,4-hexanediol, 3,4-dimethyl-; 2,4hexanediol. 3.5-dimethyl-2,4-hexanediol, 2,4-hexanediol, 4.5-dimethyl-: 5,5dimethyl-; 2.5-hexanediol 2,3-dimethyl-; 2,5-hexanediol, 2.4-dimethyl-; 2,5-

hexanediol, 2,5-dimethyl-; 2,5-hexanediol, 3,3-dimethyl-; 2,5-hexanediol, dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3-hexanediol, 2-ethyl-; 1,3-hexanediol, 4ethyl-; 1,4-hexanediol, 2-ethyl-; 1,4-hexanediol, 4-ethyl-; 1,5-hexanediol, 2-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,4-hexanediol, 4-ethyl-; 2,5-hexanediol/ 3-ethyl-; 1,3heptanediol, 2-methyl-; 1,3-heptanediol, 3-methyl-; 1,3-heptanediol, 4-methyl-; 1,3heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,4-heptanediol, 2-methyl-; 1,4heptanediol, 3-methyl-; 1,4-heptanediol, 4-methyl-; 1,4-heptanediol, 5-methyl-; 1,4heptanediol, 6-methyl-, 1,5-heptanediol, 2-methyl-, 1,5-heptanediol, 3-methyl-, 1,5heptanediol, 4-methyl-; 1,5-heptanediol, 5-methyl-; 1,5-heptanediol, 6-methyl-; 1,6heptanediol, 2-methyl-; 1,6-heptanediol, 3/methyl-; 1,6-heptanediol, 4-methyl-; 1,6heptanediol, 5-methyl-; 1,6-heptanediol, 6-methyl-; 2,4-heptanediol, 2-methyl-; 2,4heptanediol, 3-methyl-; 2,4-heptanediol,/4-methyl-; 2,4-heptanediol, 5-methyl-; 2,4heptanediol, 6-methyl-, 2,5-heptanediol, 2-methyl-, 2,5-heptanediol, 3-methyl-, 2,5heptanediol, 4-methyl-; 2,5-heptanediol, 5-methyl-; 2,5-heptanediol, 6-methyl-; 2,6heptanediol, 2-methyl-; 2,6-heptanediol, 3-methyl-; 2,6-heptanediol, 4-methyl-; 3,4heptanediol, 3-methyl-, 3,5-heptanediol, 2-methyl-, 3,5-heptanediol, 3-methyl-, 3,5heptanediol, 4-methyl-; 2,4-oc/anediol; 2,5-octanediol; 2,6-octanediol; 2,7octanediol; 3,5-octanediol; 3,6-octanediol; and mixtures thereof.

The composition of Claim 2/4 wherein said principal solvent is selected from 25. the group consisting of: 1,3-propanediol, 2-(1,1-dimethylpropyl)-, 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3/propanediol, 2-(1-ethylpropyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl); 1,3-propanediol, 2-ethyl-2-isopropyl-; 1,3-propanediol, 2methyl-2-(1-methylpropyl)-/ 1/3-propanediol, 2-methyl-2-(2-methylpropyl)-, 1,3propanediol, 2-terliary-bufyl-2-methyl-; 1,3-butanediol, 2,2-diethyl; 1,3-butanediol, 2-(1-methylpropyl)-, 1,3-butanediol, 2-butyl-, 1,3-butanediol, 2-ethyl-2,3-dimethyl-, 1,3-butanediol, 2-(1,1-dimethylethyl)-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3butanediol, 2-methyl-2-propyl-; 1,3-butanediol, 2-methyl-2-isopropyl-; butanediol, 3-methyl-2/propyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2-ethyl-2,3-dimethyl-: 1,4-butanediol, 2-ethyl-3,3-dimethyl-, 1,4-butanediol, 2-(1,1dimethylethyl)-/ 1,4/butanediol, 3-methyl-2-isopropyl-; 1,3-pentanediol, 2,2,3trimethyl-; 1,3-pentanediol, 2,2,4-trimethyl-; 1,3-pentanediol, 2,3,4-trimethyl-; 1,3pentanediol, 2,4,4/trimethyl-, 1,3-pentanediol, 3,4,4-trimethyl-, 1,4-pentanediol, 2,2,3-trimethyl-; 1/4-pentanediol, 2,2,4-trimethyl-; 1,4-pentanediol, 2,3,3-trimethyl-; 1,4-pentanediol, 2,3,4-trimethyl-, 1,4-pentanediol, 3,3,4-trimethyl-, 1,5-pentanediol, 2,2,3-trimethyl-; 1,5-pentanediol, 2,2,4-trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 2,4-pentanediol 2,3,4-trimethyl-; 1,3-pentanediol, 2-ethyl-2-methyl-; 1,3-

pentanediol, 2-ethyl-3-methyl-, 1,3-pentanediol, 2-ethyl-4-methyl-, 1,3-pentanediol, 3-ethyl-2-methyl-, 1,4-pentanediol, 2-ethyl-3-methyl-, 1,4-pentanediol, 2-ethyl-3methyl-, 1,4-pentanediol, 2-ethyl-4-methyl-; 1,5-pentanediol, 3-ethyl-3-methyl-; pentanediol, 3-ethyl-2-methyl-; 1,3-pentanediol, 2-isopropyl-; 1,3-pentanediol, 2propyl-; 1,4-pentanediol, 2-isopropyl-; 1,4-pentanediol, 2-propyl-; 1,4-pentanediol, 3-isopropyl-; 2,4-pentanediol, 3-propyl-; 1,3-hexanediol, 2,2-dimethyl-: 1.3hexanediol. 2,3-dimethyl-; 1,3-hexanediol/ 2,4-dimethyl-; 1,3-hexanediol. 2,5dimethyl-; 1,3-hexanediol, 3,4-dimethyl-1,3-hexanediol, 3.5-dimethyl-: 1,3hexanediol, 4,4-dimethyl-; 1.3-hexanedial 4,5-dimethyl-; 1,4-hexanediol, 2,2dimethyl-; 1,4-hexanediol, 2,3-dimethyl-; 1,4-hexanediol, 2,4-dimethyl-; 1.4hexanediol, 2,5-dimethyl-; 1,4-hexanediol 3,3-dimethyl-; 1,4-hexanediol, 3,4dimethyl-; 1,4-hexanediol, 3,5-dimethyl-; 1,4-hexanediol. 4,5-dimethyl-; 1,4hexanediol. 5.5-dimethyl-: 1,5-hexanediol 2,2-dimethyl-: 1,5-hexanediol. 2,3dimethyl-; 1,5-hexanediol. 2,4-dimethyl-; 1,5-hexanediol, 2,5-dimethyl-: 1,5hexanediol. 3,3-dimethyl-; 1.5-hexanediol 3,4-dimethyl-; 1,5-hexanediol, 3,5dimethyl-; 1,5-hexanediol, 4,5-dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3hexanediol. 2-ethvi-: 1/3-hexanedial 4-ethyl-/ 1,4-hexanediol 2-ethyl-; 1.4hexanediol, 1.5-hexanédiøl, 4-ethyl-; 2-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,4hexanediol, 4-ethyl-;/2,5-hexanediol, 3-ethyl-, 1.3-heptanediol, 2-methyl-, heptanediol, 3-methyl-, 1,3-heptanediol, 4-methyl-, 1,3-heptanediol, 5-methyl-, 1,3heptanediol, 6-methyl-; 1,4-heptanediol, 2-methyl-; 1,4-heptanediol, 3-methyl-; 1,4heptanediol, 4-methyl-; 1,4-heptanediol, 5-methyl-; 1,4-heptanediol, 6-methyl-; 1,5heptanediol, 2-methyl-; 1,5-heptanediol,/3-methyl-; 1,5-heptanediol, 4-methyl-; 1,5heptanediol, 5-methyl-, 1,5-heptanediol, 6-methyl-, 1,6-heptanediol, 2-methyl-, 1,6heptanediol, 3-methyl-; 1,6-heptanediol, 4-methyl-; 1,6-heptanediol, 5-methyl-; 1,6heptanediol, 6-methyl-; 2/4-heptanediol, 2-methyl-; 2,4-heptanediol, 3-methyl-; 2,4heptanediol, 4-methyl-, 2,4-heptanediol, 5-methyl-; 2,4-heptanediol, 6-methyl-; 2,5heptanediol, 2-methyl-, \$,5-heptanediol, 3-methyl-, 2,5-heptanediol, 4-methyl-, 2,5heptanediol, 5-methyl-, /2,5-heptanediol, 6-methyl-; 2,6-heptanediol, 2-methyl-; 2,6heptanediol, 3-methyl-/2,6-heptanediol, 4-methyl-, 3,4-heptanediol, 3-methyl-, 3,5heptanediol, 2-methyl/; 3,5-heptanediol, 4-methyl-; 2,4-octanediol; 2,5-octanediol; 2,6-octanediol; 2,7-octanediol; 3,5-octanediol; 3,6-octanediol; and mixtures thereof.

26. The composition of Claim 25 wherein said principal solvent is selected from the group consisting of:

^{1,3-}propanediol, 2/(1,1-dimethylpropyl)-; 1,3-propanediol, 2-(1,2-dimethylpropyl)-;

^{1,3-}propanediol, 2-(1-ethylpropyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3-

propanediol, 2-ethyl-2-isopropyl-, 1,3-propanediol, 2-methyl-2-(1-methylpropyl)-, 1,3-propanediol, 2-methyl-2-(2-methylpropyl)-; 1,3-propanediol, 2-terriary-butyl-2methyl-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-butyl-, 1,3-butanediol, 2-methyl-2/-propyl-, 1,3-butanediol, 3methyl-2-propyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2-ethyl-2,3-dimethyl-; 1,4-butanediol, 2-ethyl-3,3-dimethyl-; 1,4-butanediol, 2-(1,1-dimethylethyl)- 1,3pentanediol, 2,3,4-trimethyl-; 1,4-pentanediol, 2,3,4-trimethyl-; 1,5-pentanediol, 2,2,3-trimethyl-; 1,5-pentanediol, 2,2,4-trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 1,3-pentanediol. 2-ethyl-2-methyl-; 1,3-pentanediol, /2-ethyl-3-methyl-; pentanediol, 2-ethyl-4-methyl-; 1,3-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-3-methyl-; 1,4-pentanediol, 2-ethyl-4methyl-; 1,5-pentanediol, 3-ethyl-3-methyl-/2,4-pentanediol, 3-ethyl-2-methyl-; 1,3pentanediol, 2-isopropyl-; 1,3-pentanediol/ 2-propyl-; 1,4-pentanediol, 2-isopropyl-; 1,4-pentanediol, 2-propyl-; 1,4-pentanediol, 3-isopropyl-; 2,4-pentanediol, 3-propyl-; 1,3-hexanediol, 2,2-dimethyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,4dimethyl-; 1,3-hexanediol 2,5-dimethyl-/ 1,3-hexanediol, 3,4-dimethyl-; 1.3hexanediol, 3,5-dimethyl-; 1,3-hexanediol 4,4-dimethyl-; 1,3-hexanediol, 4,5dimethyl-; 1,4-hexanediol. 2/2-dimenhyl-; 1,4-hexanediol. 2,3-dimethyl-; 1,4hexanediol, 2,4-dimethyl-; 1,4-hexanediol. 2,5-dimethyl-; 1,4-hexanediot. 3,3dimethyl-; 1,4-hexanedio 3.4-dimethyl-: 1,4-hexanediol. 3,5-dimethyl-: 1.4hexanediol, 4.5-dimethyl-: 1.4-hexanediol. 5,5-dimethyl-: 1,5-hexanediol, 2,2dimethyl-; 1,5-hexanediol, 2/8-dimethyl-; 1,5-hexanediol/ 2,4-dir:ethyl-; 1,5hexanediol, 2,5-dimethyl-; 5-hexamediol, 3,3-dimethyl-: 1,5-hexanediol, 3,4dimethyl-; 3,5-dimethyl-; 1,5-hexanediol/ 1,5-hexanediol, 4,5-dimethyl-; 2,6hexanediol, 3,3-dimethyl-;/1,\$-hexanediol, 2-ethyl-; 1,3-hexanediol, 4-ethyl-; 1,4hexanediol, 2-ethyl; /1/4-hexanediol 4-ethyl-; 1,5-hexanediol, 2-ethyl-; 2,4hexanediol. 3-ethyl-/ 2,4-hexanediol, 4-ethyl-; 2,5-hexanediol, 3-ethyl-; heptanediol, 2-methyl-, 1,3/heptanediol, 3-methyl-, 1,3-heptanediol, 4-methyl-, 1,3heptanediol, 5-methyl-, 1,3-heptanediol, 6-methyl-, 1,4-heptanediol, 2-methyl-, 1,4heptanediol, 3-methyl-, 1,4-heptanediol, 4-methyl-, 1,4-heptanediol, 5-methyl-, 1,4heptanediol, 6/methyl-; 1/,5-heptanediol, 2-methyl-; 1,5-heptanediol, 3-methyl-; 1,5heptanediol, 4-methyl-, 1,5-heptanediol, 5-methyl-, 1,5-heptanediol, 6-methyl-, 1,6heptanediol, 2-methyl-,/1,6-heptanediol, 3-methyl-, 1,6-heptanediol, 4-methyl-, 1,6heptanediol, 5-methyl-/ 1,6-heptanediol, 6-methyl-; 2,4-heptanediol, 2-methyl-, 2,4heptanediol, 3-methyl/, 2,4-heptanediol, 4-methyl-; 2,4-heptanediol, 5-methyl-, 2,4heptanediol, 6-methyl-; 2,5-heptanediol, 2-methyl-; 2,5-heptanediol, 3-methyl-; 2,5heptanediol, 4-methyl-; 2,5-heptanediol, 5-methyl-; 2,5-heptanediol, 6-methyl-; 2,6heptanediol, 2-methyl-; 2,6-heptanediol, 3-methyl-; 2,6-heptanediol, 4-methyl-; 3,4-heptanediol, 3-methyl-; 3,5-heptanediol, 2-methyl-; 3,5-heptanediol, 4-methyl-; 2,4-octanediol; 2,5-octanediol; 2,6-octanediol; 2,7-octanediol; 3,5-octanediol; and/or 3,6-octanediol; and mixtures thereof.

- The composition of Claim 26 wherein said principal solvent is selected from the group consisting of: 2,4-pentanediol, 2,3,3,4-tetramethyl-; 2,4-pentanediol, 3-tertiarybutyl-; 2,4-hexanediol, 2,5,5-trimethyl-; 2,4-hexanediol, 3,3,5-trimethyl-; 2,4-hexanediol, 3,3,5-trimethyl-; 2,4-hexanediol, 4,5,5-trimethyl-; 2,5-hexanediol, 3,3,4-trimethyl-; 2,5-hexanediol, 3,3,5-trimethyl-; and mixtures thereof.
- 28. The composition of Claim 27 wherein said principal solvent is 2,4-pentanediol, 2,3,3,4-tetramethyl-
- The composition of any of Claims 11-15 wherein said principal solvent is **29**. selected from the group consisting of: 1,2-propanediol, 3-(n-pentyloxy)-, 1,2propanediol, 3-(2-pentyloxy)-, 1,2-propanediol, 3-(3-pentyloxy)-, 1,2-propanediol, 3-(2-methyl-1-butyloxy)-; 1,2-propanediol, 3-(iso-amyloxy)-; 1,2-propanediol, 3-(3methyl-2-butyloxy)-; 1,2-propanediol, 3-(cyclohexyloxy)-; 1,2-propanediol, 3-(1cyclohex-1-enyloxy)-; 1/,3-propanediol, 2-(pentyloxy)-; 1,3-propanediol, pentyloxy)-; 1,3-propanediol, /2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1butyloxy)-; 1,3-propanediol/ 2-(iso-amyloxy)-: 1,3-propanediol, 2-(3-methyl-2butyloxy)-, 1,3-proparediol, 2-(c/clohexyloxy)-, 1,3-propanediol, 2-(1-cyclohex-1enyloxy)-; 1,2-propanediol, 3-(butylox), riethoxylated; 1,2-propanediol, 3-(butyloxy)-, tetraethoxylated, 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated, 1,2-3-(butyloxy)-, /hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated; 1,2-propanediol, 3-(butyloxy)-, octaethoxylated; 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol, 3-phenyloxy-; 1,2-propanediol, 3benzyloxy-; 1,2-propanediol/3-(2-phenylethyloxy)-; 1,2-propanediol, 3-(1-phenyl-2propanyloxy)-; 1,3-propanediol, 2-phenyloxy-; 1,3-propanediol, 2-(m-cresyloxy)-; 1,3-propanediol, 2-(p-cres/loxy)-; 1,3-propanediol, 2-benzyloxy-; 1,3-propanediol, 2-(2-phenylethyloxy)-; 1,3-propanediol, 2-(1-phenylethyloxy)-; bis(2hydroxybutyl)ether; bis(2/hydroxycylclopentyl)ether; and mixtures thereof.
- 30. The composition of Claim 29 wherein said principal solvent is selected from the group consisting of:

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1,2-propanediol. 3-(n-pentyloxy)-; 1,2-propanedio/, 3-(2-pentyloxy)-/ 1.2propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3/(2-methyl-1-butyloxy)-1.2propanediol, 3-(iso-amyloxy)-; 1,2-propanediol, \$-(3-methyl-2-butyloxy)-, 1.2propanediol, 3-(cyclohexyloxy)-; 1,2-propanediol,/3-(1-cyclohex-1-enyloxy)-; 1,3propanediol, 2-(pentyloxy)-; 1,3-propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol, 2-(isoamyloxy)-; 1,3-propanediol, 2-(3-methyl-2/butyloxy)-; 1,3-propanediol. (cyclohexyloxy)-; 1,3-propanediol, 2-(1-cyclohex-1-enyloxy)-; 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2-3-(butyloxy)-, heptaethoxy/ated; 1,2-propanediol, 3-(butyloxy)-, propanediol, octaethoxylated; 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol, 3-phenyloxy-, 1,2-propanediol, 3-benzyloxy-, 1,2-propanediol, 3-(2-phenylethyloxy)-1,3-propanediol, 2-(m-cresyloxy)-;/ 1,3-propanediol, 2-(p-cresyloxy)-; propanediol. 2-benzyloxy-; 1,3-propanediol 2/(2-phenylethyloxy)-; bis(2hydroxybutyl)ether; bis(2-hydroxycylolopentyl)ether, and mixtures thereof.

The composition of Claim 30 wherein said principal solvent is selected from 31. the group consisting of: 1,2-propanediol, 3-(n-pentyloxy) 1/2-propanediol 3-(2-pentyloxy)-; 1.2propanediol, 3-(3-pentyloxy)-/ 1/2-propanediol, 2-(2-methyl-1-butyloxy)-; 1,2propanediol, 3-(iso-amyloxy)/ ,2-propanediol, 3-(3-methyl-2-butyloxy)-; 1,2propanediol, 3-(cyclohexyloxy)-; /1,/2-propanediol, 3-(1-cyclohex-1-enyloxy)-; 1,3propanediol, 2-(pentyloxy)-; 1,3-propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol, 2-(isoamyloxy)-; 1,3-propanediol, 2-(3-methyl-2-butyloxy)-; 1,3-propanediol. (cyclohexyloxy)-; 1,3-propanediol, 2-(1-cyclohex-1-enyloxy)-; 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2propanediol, 3-(butyloxy)-, heptaethoxylated, 1,2-propanediol, 3-(butyloxy)-, octaethoxylated; 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol, 3-phenyloxy-; 1,2-propanediol, 3-benzyloxy-; 1,2-propanediol, 3-(2-phenylethyloxy)-1,3-propanediol, 2/(m-cresyloxy)-; 1,3-propanediol, 2-(p-cresyloxy)-; 1,3propanediol, 2-(2/phenylethyloxy)-; bis(2-hydroxybutyl)ether; bis(2hydroxycylclopentyl)ether; and mixtures thereof.

The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of: 1-isopropyl-1,2-cyclobutanediol; 3-ethyl-4-methyl-1,2-cyclobutanediol; 3-propyl-1,2-cyclobutanediol; 3-isopropyl-1,2-

cyclobutanediol; 1-ethyl-1,2-cyclopentanediol; 1,2-dimethyl-1,2-cyclopentanediol; 1,4-dimethyl-1,2-cyclopentanediol; 2,4,5-trimethyl-1,\$-cyclopentanediol; dimethyl-1,2-cyclopentanediol; 3,4-dimethyl-1,2-cyclopentanediol; 3,5-dimethyl-1,2cyclopentanediol; 3-ethyl-1,2-cyclopentanediol; 4,4-dimethyl-1,2-cyclopentanediol; 4-ethyl-1,2-cyclopentanediol; 1,1-bis(hydroxy/nethyl)cyclohexane; 1,2bis(hydroxymethyl)cyclohexane; 1,2-dimethy/-1,3-cyclohexanediol/ 1,3bis(hydroxymethyl)cyclohexane; 1,3-dimethyl-1,3-cyclohexanediol; 1,6-dimethyl-1,3cyclohexanediol; 1-hydroxy-cyclohexaneethanol; 1-hydroxy-cyclohexanemethanol; 1ethyl-1,3-cyclohexanediol: 1-methyl-1,2-cyclohexanediol; **2**,2-dimethyl-1,3cyclohexanediol; 2,3-dimethyl-1,4-cyclohexanediol; 2,4-dimethyl-1,3cyclohexanediol; 2.5-dimethyl-1,3-cyclohexanediol; 2,6-dimethyl-1,4cyclohexanediol; 2-ethyl-1,3-cyclohexanediol; 2-hydroxycyclohexaneethanol; hydroxyethyl-1-cyclohexanol; 2-hydroxymethylcyclohexanol; 3-hydroxyethyl-1-3-hydroxycyclohexaneethanol; 3-hydroxymethylcyclohexanol; cyclohexanol: methyl-1,2-cyclohexanediol; 4,4-dimethyl-1,3-cyclohexanediol: 4,5-dimethyl-1,3cyclohexanediol; 4,6-dimethyl-1,3-cyclohexanediol; 4-ethyl-1,3-cyclohexanediol; 4hydroxyethyl-1-cyclohexanol; 4-hydrox/methylcyclohexanol; 4-methyl-1,2cyclohexanediol; 5,5-dimethyl-1,3-cyclohexanediol; 5-ethyl-1,3-cyclohexanediol; 1,2cycloheptanediol; 2-methyl-1,3-cycloheptanediol; 2-methyl-1,4-cycloheptanediol; 4methyl-1,3-cycloheptanediól; 5-methyl-1,3-cycloheptanediol; 5-methyl-1,4cycloheptanediol; 6-methyl-1,4-gycloheptanediol; 1,3-cyclooctanediol: 1,4cyclooctanediol; 1,5-c/clooctanediol; //1,2-cyclohexanediol, diethoxylate: 1,2cyclohexanediol triethoxylate; 1,2 cyclohexanediol. tetraethoxylate; 1,2cyclohexanediol penjaethoxylate; 1,2-cyclohexanediol. hexaethoxylate; 1,2cyclohexanediol. 1.2-cyclohexanediol, heptaethoxylate; octaethoxylate; 1,2nonaethoxylate, 1,2-cyclohexanediol, cyclohexanediol, monopropoxylate; 1,2cyclohexanediol, monobutylenoxylate, 1,2-cyclohexanediol, dibutylenoxylate, 1,2cyclohexanediol. tributylenoxylate; 1,2-cyclobutanediol. 1-ethenyl-2-ethyl-; cyclobutene-1,2-diol, 1,2,3,4-ketramethyl-; 3-cyclobutene-1,2-diol, 3,4-diethyl-; 3cyclobutene-1,2-diol, 3-(1,1-dimethylethyl)-; 3-cyclobutene-1,2-diol, 3-butyl-, 1,2cyclopentanediol, 1.2-dimethyl-4-methylene-; 1.2-cyclopentanediol, 1-ethyl-3methylene-; 1,2-cyclopentanediol, 4-(1-propenyl); 3-cyclopentene-1,2-diol, 1-ethyl-3methyl-; 1,2-cyclohexanediol, 1-ethenyl-; 1,2-cyclohexanediol, 1-methyl-3methylene-; 1,2-cyclohexanediol, 1-methyl-4-methylene-; 1,2-cyclohexanediol, 3ethenyl-; 1,2-cyclohexanediol, 4-ethenyl-; 3-cyclohexene-1,2-diol, 2,6-dimethyl-; 3cyclohexene-1,2-diol, 6,6-dimethyl-, 4-cyclohexene-1,2-diol, 3,6-dimethyl-, 4cyclohexene-1,2-diol, 4,5-dimethyl-; 3-cyclooctene-1,2-diol; 4-cyclooctene-1,2-diol; 5-cyclooctene-1,2-diol; and mixtures thereof.

The composition of Claim 32 wherein said principal solvent is/selected from 33. the group consisting of: 1-isopropyl-1,2-cyclobutanediol; 3-ethyl-4-methyl-1,2-cyclobutanediol; 3-propyl-1,2cyclobutanediol; 3-isopropyl-1,2-cyclobutanediol; /-ethyl-1,2-cyclopentanediol; 1,2dimethyl-1,2-cyclopentanediol; 1,4-dimethyl-1,2-cyclopentanediol; 3,3-dimethyl-1,2cyclopentanediol; 3,4-dimethyl-1,2-cyclopentanediol; 3,5-dimethyl-1,2cyclopentanediol; 3-ethyl-1,2-cyclopentanediol; 4,4-dimethyl-1,2-cyclopentanediol; 4-ethyl-1,2-cyclopentanediol; 1,1-bis(hydroxymethyl)cyclohexane; 1.2bis(hydroxymethyl)cyclohexane; 1,2-dimethyl-1/3-cyclohexanediol; 1,3bis(hydroxymethyl)cyclohexane; 1-hydroxy-cyclohexanemethanol; 1-methyl-1.2cyclohexanediol; 3-hydroxymethylcyclohexaned; 3-methyl-1,2-cyclohexanediol; 4,4dimethyl-1,3-cyclohexanediol; 4,5-dimethyl-1,3-cyclohexanediol; 4,6-dimethyl-1,3cyclohexanediol; 4-ethyl-1,3-cyclohexanediol; 4-hydroxyethyl-1-cyclohexanol; 4hydroxymethylcyclohexanol; 4-methyl-1,2-cyclohexanediol; 1,2-cycloheptanediol,; 1,2-cyclohexanediol, pentaethoxylate; 1/4-cyclohexanediol, hexaethoxylate; cyclohexanediol. heptaethoxylate, 1/2/cyclohexanediol. octaethexylate: 1,2cyclohexanediol nonaethoxylate/ 1/2-dyclohexanediol, monopropoxylate, 1,2cyclohexanediol, dibutylenoxylate, and mixtures thereof.

34. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of:

1. 1,2-propanedial (C3) 2(Me-E₁₋₄); 1,2-propanedial (C3) PO₄; 1,2-propanedial, 2-methyl- (C4) (Me-E₄₋₁₀); 1,2-propanedial, 2-methyl- (C4) 2(Me-E₁); 1,2-propanedial, 2-methyl- (C4) PO₃; 1,2-propanedial, 2-methyl- (C4) BO₁; 1,3-propanedial (C3) 2(Me-E₆₋₈); 1,3-propanedial (C3) PO₅₋₆; 1,3-propanedial, 2,2-diethyl- (C7) E₁₋₇; 1,3-propanedial, 2,2-diethyl- (C7) PO₁; 1,3-propanedial, 2,2-diethyl- (C7) n-BO₁₋₂; 1,3-propanedial, 2,2-dimethyl- (C5) 2(Me E₁₋₂); 1,3-propanedial, 2,2-dimethyl- (C5) PO₃₋₄; 1,3-propanedial, 2-(1-methylpropyl)- (C7) E₁₋₇; 1,3-propanedial 2-(1-methylpropyl)- (C7) PO₁; 1,3-propanedial, 2-(1-methylpropyl)- (C7) n-BO₁₋₂; 1,3-propanedial, 2-(2-methylpropyl)- (C7) n-BO₁₋₂; 1,3-propanedial, 2-ethyl- (C5) (Me E₆₋₁₀); 1,3-propanedial, 2-ethyl- (C5) 2(Me E₁); 1,3-propanedial, 2-ethyl- (C5) PO₃; 1,3-propanedial, 2-ethyl- (C6) PO₂; 1,3-methyl- (C6) (Me E₁₋₆); 1,3-propanedial, 2-ethyl-2-methyl- (C6) PO₂; 1,3-propanedial, 2-ethyl-2-methyl-2-methyl- (C6) PO₂; 1,3-propanedial, 2-ethyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-methyl-2-meth

propanediol, 2-ethyl-2-methyl- (C6) BO₁, 1,3-propanediol, 2-isopropyl- (C6) (Me E₁₋₆); 1,3-propanediol, 2-isopropyl- (C6) PO₂, 1,3-propanediol, 2-isopropyl- (C6) BO₁; 1,3-propanediol, 2-methyl- (C4) 2(Me E₂₋₅); 1,3-propanediol, 2-methyl- (C4) PO₄₋₅; 1,3-propanediol, 2-methyl- (C4) BO₂; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) E₂₋₉; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) PO₁, 1,3-propanediol, 2-methyl-2-propyl- (C7) E₁₋₇; 1,3-propanediol, 2-methyl-2-propyl- (C7) PO₁; 1,3-propanediol, 2-methyl-2-propyl- (C7) n-BO₁₋₂; 1,3-propanediol, 2-propyl- (C6) (Me E₁₋₄); 1,3-propanediol, 2-propyl- (C6) PO₂; 1,3-propanediol, 2-propyl- (C6) BO₁;

1,2-butanediol (C4) (Me E₂₋₈); 1,2-butanediol (C4) PO₂₋₃; 1,2-2. butanediol (C4) BO₁; 1,2-butanediol, 2,3-dimethyl- (C6) E₁₋₆; 1,2-butanediol, 2,3dimethyl- (C6) n-BO₁₋₂; 1,2-butanediol, 2-ethyl- (C6) E₁₋₃; 1,2-butanediol, 2-ethyl-(C6) n-BO₁; 1,2-butanediol, 2-methyl-/C5) (Me E₁₋₂); 1,2-butanediol, 2-methyl-(C5) PO₁; 1,2-butanediol, 3,3-dimethyl- (C6) E₁₋₆; 1,2-butanediol, 3,3-dimethyl-(C6) n-BO₁₋₂; 1,2-butanediol, 3-meth/sl- (C5) (Me E₁₋₂); 1/2-butanediol, 3-methyl-(C5) PO₁; 1,3-butanediol (C4) 2(Me £3-6); 1,3-butanediol (C4) PO₅; 1,3-butanediol (C4) BO₂; 1,3-butanediol, 2,2,3-trighethyl₇ (C7) (Me E₁₋₃); 1,3-butanediol, 2,2,3trimethyl- (C7) PO₁₋₂; 1,3-bytanediøl/ 2,2-dimethyl- (C6) (Me E₃₋₈); 1,3butanediol, 2,2-dimethyl- (C6) / O/3; 1/3-foytanediol, 2,3-dimethyl- (C6) (Me E₃₋₈); 1,3-butanediol, 2,3-dimethyl-/(C\$) \$\forall O_3\frac{1}{1},3-butanediol, 2-ethyl- (C6) (Me E₁₋₆), 1,3-butanediol, 2-ethyl- (6) PO/2-3;//1,3-butanediol, 2-ethyl- (C6) BO1; 1,3butanediol, 2-ethyl-2-methyl- (\$7) (M&E1), 1,3-butanediol, 2-ethyl-2-methyl- (C7) PO₁; 1,3-butanediol, 2-ethyl-2/methyl- (C7) /n-BO₂₋₄; 1,3-butanediol, 2-ethyl-3methyl- (C7) (Me E₁); 1,3-butanediol, 2-ethyl-3-methyl- (C7) PO₁; 1,3-butanediol, 2-ethyl-3-methyl- (C7) h-BQ2_4; 1,3-butanediol, 2-isopropyl- (C7) (Me E1); 1,3butanediol, 2-isopropyl-(C/) PO₁; 1,3-butanediol, 2-isopropyl- (C7) n-BO₂₋₄; 1,3butanediol, 2-methyl- (C5) $\frac{1}{3}$ -butanediol, 2-methyl- (C5) PO₄; 1,3butanediol, 2-propyl- (C7) \$\mathbb{E}_{2-9}\$; 1,3-butanediol, 2-propyl- (C7) PO1; 1,3-butanediol, 2-propyl- (C7) n-BO₁₋₃, 1/3-butanediol, 3-methyl- (C5) 2(Me E₁₋₃), 1,3-butanediol, 3-methyl- (C5) PO₄; 1,4/butanediol (C4) 2(Me E₂₋₄); 1,4-butanediol (C4) PO₄₋₅; 1,4-butanediol (C4) BO₂/, 1,4-butanediol, 2,2,3-trimethyl- (C7) E₂₋₉; 1,4-butanediol, 2,2,3-trimethyl- (C7) PO_1 ; 1,4-butanediol, 2,2,3-trimethyl- (C7) n-BO₁₋₃; 1,4butanediol, 2,2-dimethyl- (C6) (Me E₁₋₆), 1,4-butanediol, 2,2-dimethyl- (C6) PO₂, 1,4-butanediol, 2,2-dimethyl- (C6) BO₁; 1,4-butanediol, 2,3-dimethyl- (C6) (Me E₁-6); 1,4-butanediol, 2,3/dimethyl- (C6) PO2; 1,4-butanediol, 2,3-dimethyl- (C6) BO1; 1,4-butanediol, 2-ethýl- (C6) (Me E_{1-4}), 1,4-butanediol, 2-ethyl- (C6) PO_2 , 1,4butanediol, 2-ethyl- (C6) BO₁, 1,4-butanediol, 2-ethyl-2-methyl- (C7) E₁₋₇, 1,4butanediol, 2-ethyl-2-methyl- (C7) PO₁; 1,4-butanediol, 2-ethyl-2-methyl- (C7) n-BO₁₋₂; 1,4-butanediol, 2-ethyl-3-methyl- (C7) PO₁; 1,4-butanediol, 2-ethyl-3-methyl- (C7) PO₁; 1,4-butanediol, 2-ethyl-3-methyl- (C7) PO₁; 1,4-butanediol, 2-isopropyl- (C7) PO₁; 1,4-butanediol, 2-isopropyl- (C7) n-BO₁₋₂; 1,4-butanediol, 2-methyl- (C5) (Me E₆₋₁₀); 1,4-butanediol, 2-methyl- (C5) 2(Me E₁); 1,4-butanediol, 2-methyl- (C5) PO₃; 1,4-butanediol, 2-methyl- (C5) BO₁; 1,4-butanediol, 2-propyl- (C7) E₁₋₅; 1,4-butanediol, 2-propyl- (C7) n-BO₁₋₂; 1,4-butanediol, 3-ethyl-1-methyl- (C7) E₂₋₉; 1,4-butanediol, 3-ethyl-1-methyl- (C7) n-BO₁₋₃; 2,3-butanediol (C4) (Me E₆₋₁₀); 2,3-butanediol (C4) 2(Me E₁); 2,3-butanediol (C4) PO₃₋₄; 2,3-butanediol (C4) BO₁; 2,3-butanediol, 2,3-dimethyl- (C6) E₃₋₉; 2,3-butanediol, 2,3-dimethyl- (C6) n-BO₁₋₃; 2,3-butanediol, 2-methyl- (C5) (Me E₁₋₅); 2,3-butanediol, 2-methyl- (C5) PO₂; 2,3-butanediol, 2-methyl- (C5) BO₁;

1,2-pentanediol (C5) \$\int_{3/10}\$; 1,2-pentanediol, (C5) PO1; 1,2pentanediol, (C5) n-BO₂₋₃; 1,2-pentanediol, 2-methyl (C6) E₁₋₃; 1,2-pentanediol, 2methyl (C6) n-BO₁; 1,2-pentanediol/2-methyl (C6) BO₁; 1,2-pentanediol, 3-methyl (C6) E₁₋₃, 1,2-pentanediol, 3/methyl (C6) n-BO₁; 1,2-pentanediol, 4-methyl (C6) E₁₋₃, 1,2-pentanediol, 4-methyl (96) n-#O₁; 1,3-pentanediol (C5) 2(Me-E₁₋₂); 1,3pentanediol (C5) PO₃₋₄/1/3-pentanediol, 2,2-dimethyl- (C7) (Me-E₁); 1,3pentanediol, 2,2-dimethyl/ (C7)/POy, /1,3-pentanediol, 2,2-dimethyl- (C7) n-BO₂₋₄, 1,3-pentanediol, 2,3-dimethyl-/(C/) (Me-E₁); 1,3-pentanediol 2,3-dimethyl- (C7) PO₁, 1,3-pentanediol, 2,3-dimethyl- (C7) n-BO₂₋₄; 1,3-pentanediol, 2,4-dimethyl-(C7) (Me-E₁); 1,3-pentanediol, 2,4-dimethyl- (C7) PO₁; 1,3-pentanediol, 2,4dimethyl- (C7) n-BO₂₋₄; 1/3-pentanediol, 2-ethyl- (C7) E₂₋₉; 1,3-pentanediol, 2ethyl- (C7) PO₁/1,3-pentanediol, 2-ethyl- (C7) n-BO₁₋₃; 1,3-pentanediol, 2-methyl-(C6) 2(Me-E₁₋₆); 1,3-pentanediol, 2-methyl- (C6) PO₂₋₃; 1,3-pentanediol, 2methyl- (C6) BO1; 1,3-pentanediol, 3,4-dimethyl- (C7) (Me-E1); 1,3-pentanediol, 3,4-dimethyl- (C7) PQ_1 ; 1,3-pentanediol, 3,4-dimethyl- (C7) n-BO₂₋₄; 1,3pentanediol, 3-methyl- (C6) (Me-E₁₋₆), 1,3-pentanediol, 3-methyl- (C6) PO₂₋₃, 1,3pentanediol, 3-methyl-/(C6) BO₁; 1,3-pentanediol, 4,4-dimethyl- (C7) (Me-E₁); 1,3pentanediol, 4,4-dimethyl- (C7) PO1; 1,3-pentanediol, 4,4-dimethyl- (C7) n-BO2-4; 1,3-pentanediol, 4-methyl- (C6) (Me-E₁₋₆); 1,3-pentanediol, 4-methyl- (C6) PO₂₋₃; 1/3-pentanediol, 4-methyl- (C6) BO₁; 1,4-pentanediol, (C5) 2(Me-E₁₋₂); 1,4pentanediol (C5) PO_{3-4} ; 1,4-pentanediol, 2,2-dimethyl- (C7) (Me-E₁); 1,4pentanediol, 2,2-dimethyl- (C7) PO1; 1,4-pentanediol, 2,2-dimethyl- (C7) n-BO2-4; 1,4-pentanediol, 2,3-dimethyl- (C7) (Me-E₁); 1,4-pentanediol, 2,3-dimethyl- (C7)

PO₁, 1,4-pentanediol, 2,3-aimethyl- (C7) n-BO₂₋₄; 1,4-pentanediol, 2,4-dimethyl-(C7) (Me-E₁); 1,4-pentanediol, 2,4-dimethyl- (C7) /PO₁; 1,4-pentanediol, 2,4dimethyl- (C7) n-BO₂₋₄; 1,4-pentanediol, 2-methyl- (C6) (Me-E_{1/-6}); 1,4pentanediol, 2-methyl- (C6) PO₂₋₃; 1,4-pentanediol, 2-methyl- (C6)/BO₁; 1,4pentanediol, 3,3-dimethyl- (C7) (Me-E1); 1,4-pentanediol, 3,3-dimethyl- (C7) PO1; 1,4-pentanediol, 3,3-dimethyl- (C7) n-BO₂₋₄; 1,4-pentanediol, 3,4-dimethyl- (C7) (Me-E₁); 1,4-pentanediol, 3,4-dimethyl- (C7) PO₁; 1,4-pentanediol, 3,4-dimethyl-(C7) n-BO₂₋₄, 1,4-pentanediol, 3-methyl- (C6) 2(Me-E₁₋₆); /1,4-pentanediol, 3methyl- (C6) PO₂₋₃; 1,4-pentanediol, 3-methyl- (C6) BO₁/1,4-pentanediol, 4methyl- (C6) 2(Me-E₁₋₆); 1,4-pentanediol, 4-methyl- (C6) PO₂₋₃; 1,4-pentanediol, 4-methyl- (C6) BO₁; 1,5-pentanediol, (C5)/Me-E₄₋₁₀); 1,5-pentanediol (C5) 2(Me-E₁); 1,5-pentanediol (C5) PO₃; 1,5-pentanediol, 2,2-dimethyl- (C7) E₁₋₇; 1,5pentanediol, 2,2-dimethyl- (C7) PO1; 1,4-pentanediol, 2,2-dimethyl- (C7) n-BO1-2, 1,5-pentanediol, 2,3-dimethyl- (C7) E₁/₁, 1,5-pentanediol, 2,3-dimethyl- (C7) PO₁, 1,5-pentanediol, 2,3-dimethyl- (C7) n/BO₁/2; 1,5-pentanediol, 2,4-dimethyl- (C7) E₁₋₇; 1,5-pentanediol, 2,4-dimethyl- (C7) (C7) (C7) (C7) n-BO₁₋₂; 1,5-pentanediol, 2-ethyl- (Q7) 1/5; 1,5-pentanediol, 2-ethyl- (C7) n-BO₁₋ 2, 1,5-pentanediol, 2-methyl- (C6) (Me/E_{1/4}); 1,5-pentanediol, 2-methyl- (C6) PO₂; 1,5-pentanediol, 3,3-dimethyl- (C7)/E/1-7; 1,5-pentanediol, 3,3-dimethyl- (C7) PO₁; 1,5-pentanediol, 3,3-dimethyl- (C7) /n-BO 2; /1,5-pentanediol, 3-methyl- (C6) (Me-E₁₋₄), 1,5-pentanediol, 3/methyl-/(C6) PO₂, 2,3-pentanediol, (C5) (Me-E₁₋₃), 2,3pentanediol, (C5) PO2; 2,3-pentanediol, 2-methyl- (C6) E1-7; 2,3-pentanediol, 2methyl- (C6) PO₁; 2,3-pentanediol, 2-methyl- (C6) n-BO₁₋₂; 2,3-pentanediol, 3methyl- (C6) E₁₋₇; 2,3-pentanediol, 3-methyl- (C6) PO₁; 2,3-pentanediol, 3-methyl-(C6) n-BO₁₋₂; 2,3-pentanediol, 4-methyl- (C6) E₁₋₇; 2,3-pentanediol, 4-methyl-(C6) PO₁, 2,3-pentanediol, 4/methyl-/C6) n-BO₁₋₂, 2,4-pentanediol, (C5) 2(Me-E₁₋₄), 2,4-pentanediol (C5) PO₄; 2,4-pentanediol, 2,3-dimethyl- (C7) (Me-E₁₋₄), 2,4-pentanediol, 2,3-dimethyl- (C7) PO₂; 2,4-pentanediol, 2,4-dimethyl- (C7) (Me- E_{1-4}); 2,4-pentanediol, 2,4/dimethyl- (C7) PO₂; 2,4-pentanediol, 2-methyl- (C7) (Me-E₅₋₁₀); 2,4-pentanediol, 2-methyl- (C7) PO₃; 2,4-pentanediol, 3,3-dimethyl-(C7) (Me-E₁₋₄); 2,4-pentanediol, 3,3-dimethyl- (C7) PO₂, 2,4-pentanediol, 3methyl- (C6) (Me-E₅₋₁₀), 2,4-pentanediol, 3-methyl- (C6) PO₃;

4. 1,3-hexanediol (C6) (Me-E₁₋₅); 1,3-hexanediol (C6) PO₂; 1,3-hexanediol (C6) BO₁; 1,3-hexanediol, 2-methyl- (C7) E₂₋₉; 1,3-hexanediol, 2-methyl- (C7) PO₁; 1,3-hexanediol, 2-methyl- (C7) BO₁; 1,3-hexanediol, 3-methyl- (C7) E₂₋₉; 1,3-hexanediol, 3-methyl- (C7) PO₁; 1,3-hexanediol, β-methyl- (C7) n-BO₁₋₃; 1,3-hexanediol, 4-methyl- (C7)

E₂₋₉, 1,3-hexanediol, 4-methyl- (C7) PO₁; 1,3-hexanediol, 4-methyl- (C7) n-BO₁₋₃; 1,3-hexanediol, 5-methyl- (C7) E₂₋₉; 1,3-hexanediol, 5-methyl- (C7) PO₁; 1,3hexanediol, 5-methyl- (C7) n-BO₁₋₃; 1,4-hexanediol (C6) (Me/E₁₋₅); 1,4-hexanediol (C6) PO₂; 1,4-hexanediol (C6) BO₁; 1,4-hexanediol, 2-methyl- (C7) E₂₋₉; 1,4hexanediol, 2-methyl- (C7) PO1; 1,4-hexanediol, 2-methyl- (C7) /n-BO1-3; 1,4hexanediol, 3-methyl- (C7) E2-9; 1,4-hexanediol, 3-methyl- (C7) PO1; 1,4hexanediol, 3-methyl- (C7) n-BO₁₋₃, 1,4-hexanediol, 4-methyl- (C7) E₂₋₉, 1,4hexanediol, 4-methyl- (C7) PO₁, 1,4-hexanediol, 4-methyl- (C7) n-BO₁₋₃, 1,4hexanediol, 5-methyl- (C7) E₂₋₉; 1,4-hexanediol/ 5-methyl- (C7) PO₁; 1,4hexanediol, 5-methyl- (C7) n-BO₁₋₃; 1,5-hexanediol/(C6) (Me-E₁₋₅); 1,5-hexanediol (C6) PO2; 1,5-hexanediol (C6) BO1; 1,5-hexanediol, 2-methyl- (C7) E2-9; 1,5hexanediol, 2-methyl- (C7) PO₁; 1,5-hexanediol, 2-methyl- (C7) n-BO₁₋₃; 1,5hexanediol, 3-methyl- (C7) E2-9; 1,5-hexanediol, 3-methyl- (C7) PO1; 1,5hexanediol, 3-methyl- (C7) n-BO₁₋₃; 1,5-hexanediol, 4-methyl- (C7) E₂₋₉; 1,5hexanediol, 4-methyl- (C7) PO₁; 1,5-hexanediol, 4-methyl- (C7) n-BO₁₋₃; 1,5hexanediol, 5-methyl- (C7) E2-9; 1,5-hexanediol, 5-methyl- (C7) PO1, 1,5hexanediol, 5-methyl- (C7) n-BO₁₋₃; 1,6-hexanediol (C6) (Me-E₁₋₂); 1,6-hexanediol (C6) PO₁₋₂, 1,6-hexanediol (C6) n-BO₄,/1,6-hexanediol, 2-methyl- (C7) E₁₋₅, 1,6hexanediol, 2-methyl- (C7) n-BO₁₋₂; /1/6-hexanediol, 3-methyl- (C7) E₁₋₅; /.6hexanediol, 3-methyl- (C7) n-BO₁₋₂, 2,3-hexanediol (C6) E₁₋₅; 2,3-hexanediol (C6) n-BO₁, 2,3-hexanediol (C6) BO₁,/2,4/hexanediol (C6) (Me-E₃₋₈), 2,4-hexanediol (C6) PO3; 2,4-hexanediol, 2-methyl- (¢/) (Me-E₁₋₂); 2,4-hexanediol 2-methyl- (C7) PO₁₋₂; 2,4-hexanediol, 3-methyl- (C//) (Me E_{1-2}); 2,4-hexanediol 3-methyl- (C7) PO₁₋₂, 2,4-hexanediol, 4-methyl- ($\/\$ 7) (Me $\/\$ E₁₋₂); 2,4-hexanediol 4-methyl- (C7) PO_{1-2} ; 2,4-hexanediol, 5-methyl- (C7) (Me- E_{1-2}); 2,4-hexanediol 5-methyl- (C7) PO₁₋₂; 2,5-hexanediol (C6) (Me,E₃₋₈); 2,5-hexanediol (C6) PO₃; 2,5-hexanediol, 2methyl- (C7) (Me-E₁/₂); 2,5-hexanediol 2-methyl- (C7) PO₁₋₂; 2,5-hexanediol, 3methyl- (C7) (Me- E_{1-2}), 2,5-hexanediol 3-methyl- (C7) PO₁₋₂, 3,4-hexanediol (C6) EO₁₋₅, 3,4-hexanediol (C6) n-B ϕ_1 ; 3,4-hexanediol (C6) BO₁;

5. 1,3-heptanediol (C7) E_{1-7} ; 1,3-heptanediol (C7) PO_1 ; 1,3-heptanediol (C7) n-BO₁₋₂; 1,4-heptanediol (C7) E_{1-7} ; 1,4-heptanediol (C7) PO_1 ; 1,4-heptanediol (C7) PO_1 ; 1,5-heptanediol (C7) PO_1 ; 1,5-heptanediol (C7) PO_1 ; 1,5-heptanediol (C7) PO_1 ; 1,6-heptanediol (C7) PO_1 ; 2,4-heptanediol (C7) PO_1 ; 2,5-heptanediol (PO₁)

BO₃; 2,6-heptanediol (C7) E_{3-10} ; 2,6-heptanediol (C7) (Me- E_1); 2,6-heptanediol (C7) PO₁; 2,6-heptanediol (C7) n-BO₃; 3,5-heptanediol (C7) E_{3-10} ; 3,5-heptanediol (C7) (Me- E_1); 3,5-heptanediol (C7) PO₁; 3,5-heptanediol (C7) n-BO₃;

1,3-butanediol, 3-methyl-2-isopropyl- (C8) PO₁; 2,4-pentanediol, 2,3,3-trimethyl- (C8) PO₁; 1,3-butanediol, 2,2-diethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,3-dimethyl- (C8) E_{2-5} , 2,4-hexanediol, 2,4-dimethyl- (C8) $E_{2-5}/2$,4-hexanediol, 2,5-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 3,3-dimethyl- (C8) $E_{2/5}$; 2,4-hexanediol, 3,4-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 3,5-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 4,5-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 5,5-dimethyl- (C8) \cancel{E}_{2-5} ; 2,5-hexanediol, 2,3-dimethyl- (C8) E_{2-5} ; 2,5-hexanediol, 2,4-dimethyl- (C8) E_{2-5} ; 2,5-hexanediol, 2,5-dimethyl- (C8) E_{2-5} ; 2,5-hexanediol, 3,3-dimethyl- (C8) E_{2-5} ; 2,5-hexanediol, 3,4-dimethyl- (C8) E₂₋₅; 3,5-heptanediol, 3-methyl- (C8) E₂₋₅; 1,3-butanediol, 2,2diethyl- (C8) n-BO₁₋₂; 2,4-hexanediol, 2,3-dimethyl- (C8) n-BO₁₋₂; 2,4-hexanediol, 2,4-dimethyl- (C8) n-BO₁₋₂, 2,4-hexanediol, 2,5-dimethyl- (C8) n-BO₁₋₂, 2,4hexanediol, 3,3-dimethyl- (C8) n-BO₁₋₂/2,4-hexanediol, 3,4-dimethyl- (C8) n-BO₁₋ 2; 2,4-hexanediol, 3,5-dimethyl- (C8) n/BO₁₋₂; 2,4-hexanediol, 4,5-dimethyl- (C8) n-BO₁₋₂; 2,4-hexanediol, 5,5-dimethyl-, $\frac{1}{1-2}$; 2,5-hexanediol, 2,3-dimethyl-(C8) n-BO₁₋₂, 2,5-hexanediol, 2,4-d/methyl-/(C8) n-BO₁₋₂, 2,5-hexanediol, 2,5dimethyl- (C8) n-BO₁₋₂, $\sqrt{2}$, 5-hexanediol, $\sqrt{3}$, 3-dimethyl- (C8) n-BO₁₋₂, $\sqrt{2}$, 5hexanediol, 3,4-dimethyl- (C8) n-BO₁₋₂, 3/5-heptanediol, 3-methyl- (C8) n-BO₁₋₂, 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) n-BO₁, 1,3-butanediol, 2-ethyl-2,3dimethyl- (C8) n-BO₁/1,3-butanediol/2-methyl-2-isopropyl- (C8) n-BO₁, 1,4butanediol, 3-methyl-2/isopropyl/ (C*) n-BO1; 1,3-pentanediol, 2,2,3-trimethyl-(C8) n-BO₁, 1,3-pentahediol, 2,2,4-trimethyl- (C8) n-BO₁, 1,3-pentahediol, 2,4,4trimethyl- (C8) n-BO₁, 1,3-pentanediol, 3,4,4-trimethyl- (C8) n-BO₁, 1,4pentanediol, 2,2,3-trimethyl- (08) n-BO₁, 1,4-pentanediol, 2,2,4-trimethyl- (C8) n-BO₁, 1,4-pentanediol, 2,3,3-trimethyl- (C8) n-BO₁, 1,4-pentanediol, 3,3,4-trimethyl-(C8) n-BO₁, 2,4-pentanediol,/2,3,4-trimethyl- (C8) n-BO₁, 2,4-hexanediol, 4-ethyl-(C8) n-BO₁; 2,4-heptanediol, 2-methyl- (C8) n-BO₁; 2,4-heptanediol, 3-methyl-(C8) n-BO₁, 2,4-heptanediol, 4-methyl- (C8) n-BO₁, 2,4-heptanediol, 5-methyl-(C8) n-BO₁, 2,4-heptanediol, 6-methyl- (C8) n-BO₁, 2,5-heptanediol, 2-methyl-(C8) n-BO₁; 2,5-heptanediol, 3-methyl- (C8) n-BO₁, 2,5-heptanediol, 4-methyl-(C8) n-BO₁; 2,5-heptanediol, 5-methyl- (C8) n-BO₁; 2,5-heptanediol, 6-methyl-(C8) n-BO₁, 2,6-heptanediol, 2-methyl- (C8) n-BO₁, 2,6-heptanediol, 3-methyl-(C8) n-BO₁, 2,6-heptanediol, 4-methyl- (C8) n-BO₁, 3,5-heptanediol, 2-methyl-(C8) n-BO₁, 1,3-propenedial, 2-(1,2-dimethylpropyl)- (C8) E₁₋₃, 1,3-butanedial, 2ethyl-2,3-dimethyl- (C8) E₁₋₃; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) E₁₋₃; 1,4-

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butanediol, 3-methyl-2-isopropyl- (C8) E_{1-3} ; 1,3-pentanediol, 2,2,3-trimethyl- (C8) E_{1-3} ; 1,3-pentanediol, 2,2,4-trimethyl- (C8) E_{1-3} ; 1,3-pentanediol, 2,4,4-trimethyl- (C8) E_{1-3} ; 1,4-pentanediol, 2,2,3-trimethyl- (C8) E_{1-3} ; 1,4-pentanediol, 2,2,3-trimethyl- (C8) E_{1-3} ; 1,4-pentanediol, 2,2,4-trimethyl- (C8) E_{1-3} ; 1,4-pentanediol, 2,3,3-trimethyl- (C8) E_{1-3} ; 1,4-pentanediol, 3,3,4-trimethyl- (C8) E_{1-3} ; 2,4-pentanediol, 2,3,4-trimethyl- (C8) E_{1-3} ; 2,4-heptanediol, 4-ethyl- (C8) E_{1-3} ; 2,4-heptanediol, 2-methyl- (C8) E_{1-3} ; 2,4-heptanediol, 3-methyl- (C8) E_{1-3} ; 2,4-heptanediol, 5-methyl- (C8) E_{1-3} ; 2,5-heptanediol, 3-methyl- (C8) E_{1-3} ; 2,5-heptanediol, 3-methyl- (C8) E_{1-3} ; 2,5-heptanediol, 4-methyl- (C8) E_{1-3} ; 2,5-heptanediol, 5-methyl- (C8) E_{1-3} ; 2,6-heptanediol, 2-methyl- (C8) E_{1-3} ; 2,6-heptanediol, 4-methyl- (C8) E_{1-3}

35. The composition of Claim 34 wherein said principal solvent is selected from the group consisting of:

1,2-propanediol (Q'3) 2(Me-E₂/A); 1,2-propanediol (C3) PO₄, 1,2propanediol, 2-methyl- (C4) (M&-Eg_(d);/1,2-propanediol, 2-methyl- (C4) 2(Me- E_1), 1,2-propanediol, 2/methyl-/(C4) PO_3 ; 1,3-propanediol (C3) 2(Me- E_8); 1,3propanediol (C3) PO6; 1,3-propanediol, 2,2-diethyl- (C7) E427; 1,3-propanediol, 2,2-diethyl- (C7) PO1; \1,3-propanediol, 2,2-diethyl- (C7) n-BO2; 1,3-propanediol, 2,2-dimethyl- (C5) 2(Me $E_{1/2}$); 1,3-propanediol 2,2-dimethyl- (C5) PO₄, 1,3propanediol, 2-(1-methylpropyl)- (C7) E_{4-7} , 1,3-propanediol, 2-(1-methylpropyl)-(C7) PO₁; 1,3-propanediol, 2/(1-methylpropyl)- (C7) n-BO₂; 1,3-propanediol, 2-(2methylpropyl)- (C7) $E_{4-7}/1,3$ -propanediol, 2-(2-methylpropyl)- (C7) PO_1 ; 1,3propanediol, 2-(2-methylpropyl)- (C7) n-BO2; 1,3-propanediol, 2-ethyl- (C5) (Me Eq. 10); 1,3-propanediol, 2-ethyl- (C5) 2(Me E₁); 1,3-propanediol, 2-ethyl- (C5) PO₃; 1,3-propanediol, 2-ethyl-2-methyl- (C6) (Me E₃₋₆); 1,3-propanediol, 2-ethyl-2methyl- (C6) PO₂, 1,3-propanediol, 2-ethyl-2-methyl- (C6) BO₁, 1,3-propanediol, 2isopropyl- (C6) (Me/ E_{3-6}); 1,3-propanediol, 2-isopropyl- (C6) PO₂, 1,3propanediol, 2-isopropyl- (C6) BO₁, 1,3-propanediol, 2-methyl- (C4) 2(Me E₄₋₅), 1,3-propanediol, 2-methyl- (C4) PO₅; 1,3-propanediol, 2-methyl- (C4) BO₂; 1,3propanediol, 2-methyl-2-isopropyl- (C7) E₆₋₉; 1,3-propanediol, 2-methyl-2isopropyl- (C7) PO (, 1,3-propanediol, 2-methyl-2-isopropyl- (C7) n-BO₂₋₃, 1,3propanediol, 2-methyl-2-propyl- (C7) E₄₋₇; 1,3-propanediol, 2-methyl-2-propyl(C7) PO₁; 1,3-propanediol, 2-methyl-2-propyl- (C7) n-BO₂, 1,3-propanediol, 2-propyl- (C6) (Me E₁₋₄); 1,3-propanediol, 2-propyl- (C6) PO₂;

1,2-butanediol (C4) (Me E₆₋₈), 1,2-butanediol (C4) PO₂₋₃, 1,2-butanediol (C4) BO₁; 1,2-butanediol, 2,3-dimethyl- (C6) E_{2-5} ; 1,2-butanediol, \mathbb{Z} ,3-dimethyl-(C6) n-BO₁, 1,2-butanediol, 2-ethyl- (C6) E_{1-3} ,/1,2-butanediol, 2-ethyl- (C6) n-BO₁; 1,2-butanediol, 2-methyl- (C5) (Me E_{1-2}), 1,2-butanediol/2-methyl- (C5) PO₁; 1,2-butanediol, 3,3-dimethyl- (C6) E₂₋₅; 1/2-butanediol, 3,3-dimethyl- (C6) n-BO₁, 1,2-butanediol, 3-methyl- (C5) (Me E_{l-2}), 1,2-butanediol, 3-methyl- (C5) PO₁, 1,3-butanediol (C4) 2(Me E₅₋₆); 1,3-butanediol (C4)/BO₂, 1,3-butanediol, 2,2,3-trimethyl- (C7) (Me E₁₋₃); 1,3-butanediol, 2,2,3-trimethyl- (C7) PO₂; 1,3butanediol, 2,2-dimethyl- (C6) (Me E₆₋₈),/1,3-butanediol,/2,2-dimethyl- (C6) PO₃; 1,3-butanediol, 2,3-dimethyl- (C6) (Me £6-8), 1,3-butanediol, 2,3-dimethyl- (C6) PO₃; 1,3-butanediol, 2-ethyl- (C6) (Me £4-6); 1,3-butanediol, 2-ethyl- (C6) PO₂₋₃. 1,3-butanediol, 2-ethyl- (C6) BO1; 1,3-butanediol, 2-ethyl-2-methyl- (C7) (Me E1); 1,3-butanediol, 2-ethyl-2-methyl- (C7) PO1; 1,3-butanediol, 2-ethyl-2-methyl- (C7) n-BO3; 1,3-butanediol, 2-ethyl-3-methyl- (C7) (Me E1); 1,3-butanediol, 2-ethyl-3methyl- (C7) PO1; 1,3-butanediol, 2-ethyl-3-methyl- (C7) n-BO3; 1,3-butanediol, 2isopropyl- (C7) (Me E1); 1,3-butarledish, 2-isopropyl- (C7) PO1; 1,3-butanediol, 2isopropyl- (C7) n-BO3, 1,3, butanediol, 2-methyl- (C5) 2(Me E2,3), 1,3-butanediol, 2-methyl- (C5) PO₄; 1,3-butanediol, 2-propyl- (C7) E₆₋₈; 1,3-butanediol, 2-propyl-(C7) PO₁, 1,3-butanediol, 2-propy/- (C7)/n-BO₂₋₃, 1,3-butanediol, 3-methyl- (C5) 2(Me E₂₋₃); 1,3-butanediol, 3-thethyl- (C5) PO₄; 1,4-butanediol (C4) 2(Me E₃₋₄); 1,4-butanediol (C4) PO₄₋₅; /1,4-butanediol, 2,2,3-trimethyl- (C7) E₆₋₉; 1,4butanediol, 2,2,3-trimethyl- (\$\omega_7\$) PO₁/, 1,4-butanediol, 2,2,3-trimethyl- (C7) n-BO₂-3; 1,4-butanediol, 2,2-dimethyl- (C6) (Me E₃₋₆); 1,4-butanediol, 2,2-dimethyl- (C6) PO₂; 1,4-butanediol, 2,2-di/methyl- (C6) BO₁; 1,4-butanediol, 2,3-dimethyl- (C6) (Me E₃₋₆); 1,4-butanediol,/2,3-dimethyl- (C6) PO₂; 1,4-butanediol, 2,3-dimethyl-(C6) BO₁, 1,4-butanediol/2-ethyl- (C6) (Me E₁₋₄), 1,4-butanediol, 2-ethyl- (C6) PO₂; 1,4-butanediol, 2-ethyl-2-methyl- (C7) E₄₋₇; 1,4-butanediol, 2-ethyl-2-methyl-(C7) PO1; 1,4-butanediol, 2-ethyl-2-methyl- (C7) n-BO2; 1,4-butanediol, 2-ethyl-3methyl- (C7) E₄₋₇; 1,4/butanediol, 2-ethyl-3-methyl- (C7) PO₁; 1,4-butanediol, 2ethyl-3-methyl- (C7) n/BO2; 1,4-butanediol, 2-isopropyl- (C7) E₄₋₇; 1,4-butanediol, 2-isopropyl- (C7) PO/, 1,4-butanediol, 2-isopropyl- (C7) n-BO2; 1,4-butanediol, 2methyl- (C5) (Me E₉/ $_{10}$); 1,4-butanediol, 2-methyl- (C5) 2(Me E₁); 1,4-butanediol, 2-methyl- (C5) PO₃/1,4-butanediol, 2-propyl- (C7) E₂₋₅; 1,4-butanediol, 2-propyl-(C7) n-BO₁; 1,4-butanediol, 3-ethyl-1-methyl- (C7) E₆₋₈; 1,4-butanediol, 3-ethyl-1methyl- (C7) PO₁;//1,4-butanediol, 3-ethyl-1-methyl- (C7) n-BO₂₋₃, 2,3-butanediol

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(C4) (Me E₉₋₁₀), 2.3-butanediol (C4) 2(Me E₁), 2.3-butanediol (C4) PO₃ 4, 2.3-butanediol, 2.3-dimethyl- (C6) E₇₋₉, 2.3-butanediol, 2.3-dimethyl- (C6) PO₁; 2.3-butanediol, 2.3-dimethyl- (C6) BO₂₋₃, 2.3-butanediol, 2-methyl- (C5) (Me E₂₋₅), 2.3-butanediol, 2-methyl- (C5) BO₁;

1,2-pentanediol (C5) E_{7-10} ; 1,2-pentanediol, (C5)/ PO_1 , 1,2pentanediol, (C5) n-BO₃; 1,2-pentanediol, 2-methyl (C6)/E₁₋₃; 1,2-pentanediol, 2methyl (C6) n-BO₁; 1,2-pentanediol, 3-methyl (C6) E₁₋₃; 1,2-pentanediol, 3-methyl (C6) n-BO₁; 1,2-pentanediol, 4-methyl (C6) E₁₋₃; 1,2-pentanediol/4-methyl (C6) n-BO₁; 1,3-pentanediol (C5) 2(Me-E₁₋₂); 1,3-pentanediol (C5) PO₃₋₄; 1,3pentanediol, 2,2-dimethyl- (C7) (Me-E₁), 1,3-pentanediol, 2,2-dimethyl- (C7) PO₁, 1,3-pentanediol, 2,2-dimethyl- (C7) n-BO₃, 1,3-pentanediol, 2,3-dimethyl- (C7) (Me-E₁); 1,3-pentanediol, 2,3-dimethyl- (C7) PO₁; 1,3-pentanediol, 2,3-dimethyl-(C7) n-BO₃; 1,3-pentanediol, 2,4-dimethyl- (C7) (Me-E₁), 1,3-pentanediol, 2,4dimethyl- (C7) PO1; 1,3-pentanediol, 2,4-dimethyl- (C7) n-BO3; 1,3-pentanediol, 2ethyl- (C7) E₆₋₈; 1,3-pentanediol, 2-ethyl- (C7) PO₁₇/1,3-pentanediol, 2-ethyl- (C7) n-BO₂₋₃; 1,3-pentanediol, 2-methyl- (C6) 2(Me-E₄₋₆); 1,3-pentanediol, 2-methyl-(C6) PO₂₋₃; 1,3-pentanediol, 3,4-dimethyl- (C7) (Me-E₁); 1,3-pentanediol, 3,4dimethyl- (C7) PO1; 1,3-pentanediol, 3,4-dimethyl- (C7) n-BO3; 1,3-pentanediol, 3methyl- (C6) 2(Me-E₄₋₆); 1,3-pentanediol/3/methyl- (C6) PO₂₋₃; 1,3-pentanediol, 4.4-dimethyl- (C7) (Me-E₁); 1,3-pentanedijol 4,4-dimethyl- (C7) PO₁; 1,3pentanediol, 4,4-dimethyl- (C7) n-BO3/1,3-pertanediol, 4-methyl- (C6) 2(Me-E4-6), 1,3-pentanediol, 4-methyl- (C6) PO₂₋₃//1,4-pentanediol, (C5) 2(Me-E₁₋₂), 1,4pentanediol (C5) PO₃₋₄, 1,4-pentanediol, 2/2-dimethyl- (C7) (Me-E₁), 1,4pentanediol, 2,2-dimethyl- (C7) PO1; 1,4-pentanediol, 2,2-dimethyl- (C7) n-BO3; 1,4-pentanediol, 2,3-dimethyl- (C7) (Me-E₁); 1,4-pentanediol, 2,3-dimethyl- (C7) PO₁; 1,4-pentanediol, 2,3-dimethyl- (\$\overline{q}\$7) n-BO₃; 1,4-pentanediol, 2,4-dimethyl-(C7) (Me-E₁); 1,4-pentanediol, 2,4-dimethyl- (C7) PO₁; 1,4-pentanediol, 2,4dimethyl- (C7) n-BO3; 1,4-pentanediol, 2-methyl- (C6) (Me-E₄₋₆); 1,4-pentanediol, 2-methyl- (C6) PO₂₋₃, 1,4-pentarediol, 3,3-dimethyl- (C7) (Me-E₁), 1,4pentanediol, 3,3-dimethyl- (C7) PO₁, 1,4-pentanediol, 3,3-dimethyl- (C7) n-BO₃, 1,4-pentanediol, 3,4-dimethyl- (C7)/(Me-E₁); 1,4-pentanediol, 3,4-dimethyl- (C7) PO₁; 1,4-pentanediol, 3,4-dimethyl/ (C7) n-BO₃; 1,4-pentanediol, 3-methyl- (C6) 2(Me-E₄₋₆); 1,4-pentanediol, 3-methyl- (C6) PO₂₋₃; 1,4-pentanediol, 4-methyl-(C6) 2(Me-E₄₋₆); 1,4-pentanediol, 4-methyl- (C6) PO₂₋₃; 1,5-pentanediol, (C5) (Mé-E₈₋₁₀); 1,5-pentanediol (C₅) 2(Me-E₁); 1,5-pentanediol (C₅) PO₃; 1,5pentanediol, 2,2-dimethyl- (C7) E₄₋₇; 1,5-pentanediol, 2,2-dimethyl- (C7) PO₁; 1,5pentanediol, 2,2-dimethyl- (C7) n-BO₂, 1,5-pentanediol, 2,3-dimethyl- (C7) E₄₋₇,

1,5-pentanediol, 2,3-dimethyl- (C7) PO₁; 1,5-pentanediol,/2,3-dimethyl- (C7) /n-BO₂; 1,5-pentanediol, 2,4-dimethyl- (C7) E₄₋₇; 1,5-pentanediol, 2,4-dimethyl- (C7) PO₁; 1,5-pentanediol, 2,4-dimethyl- (C7) n-BO₂; 1,5-pentanediol, 2-ethyl- (C7) E₂-5; 1,5-pentanediol, 2-ethyl- (C7) n-BO₁; 1,5-pentanediol/2-methyl- (C6) (Me-E₁₋₄); 1,5-pentanediol, 2-methyl- (C6) PO₂; 1,5-pentanediol, β ,3-dimethyl- (C7)/E₄₋₇; 1,5pentanediol, 3,3-dimethyl- (C7) PO₁; 1,5-pentanediol, 3,3-dimethyl- (C7) n-BO₂; 1,5-pentanediol, 3-methyl- (C6) (Me-E₁₋₄); 1,5-pentanediol, 3-methyl- (C6) PO₂; 2,3-pentanediol, (C5) (Me-E₁₋₃); 2,3-pentanediol, (C5) PO₂; 2,3-pentanediol, 2methyl- (C6) E₄₋₇; 2,3-pentanediol, 2-methyl- (C6) PO₁; 2,3-pentanediol, 2-methyl-(C6) n-BO₂, 2,3-pentanediol, 3-methyl- (C6) E/4-7; 2,3-pentanediol, 3-methyl- (C6) PO₁; 2,3-pentanediol, 3-methyl- (C6) n-BO₂; 2,3-pentanediol, 4-methyl- (C6) E₄₋₇; 2,3-pentanediol, 4-methyl- (C6) PO1; 2,3-pentanediol, 4-methyl- (C6) n-BO2; 2,4pentanediol, (C5) 2(Me-E₂₋₄); 2,4-pentanediol (C5) PO₄; 2,4-pentanediol, 2,3dimethyl- (C7) (Me-E₂₋₄); 2,4-pentagediol, 2,3-dimethyl- (C7) PO₂; 2,4pentanediol, 2,4-dimethyl- (C7) (Me-E/2-4); 2,4-pentanediol, 2,4-dimethyl- (C7) PO₂; 2,4-pentanediol, 2-methyl- (C7)/Me-E₈₋₁₀); 2,4-pentanediol, 2-methyl- (C7) PO₃, 2,4-pentanediol, 3,3-dimethyl-/ $(\rlap/c7)$ (Me-E₂₋₄)/2,4-pentanediol, 3,3-dimethyl-(C7) PO₂; 2,4-pentanediol, 3-methyl/ (C6)/(Me-E₈₋₁₀); 2,4-pentanediol, 3-methyl-(C6) PO₃;

1,3-hexanediol (C6) (Me/E₂₋₅); 1,3-hexanediol (C6) PO₂; 1,3hexanediol (C6) BO1; 1,3-hexanediol, 2-methyl- (C7) E6-8, 1,3-hexanediol, 2methyl- (C7) PO1; 1,3-hexahediol, /2-methyl- (C7) n-B/02-3; 1,3-hexahediol, 3methyl- (C7) E₆₋₈, 1,3-hexanediol,/3-methyl- (C7) PØ₁; 1,3-hexanediol, 3-methyl-(C7) n-BO₂₋₃; 1,3-hexanediol, /4-methyl- (C7) E₆₋₈; 1,3-hexanediol, 4-methyl- (C7) PO₁; 1,3-hexanediol, 4-methy-(C7) n-BO₂₋₃; 1,3-hexanediol, 5-methyl-(C7) E₆₋₈; 1,3-hexanediol, 5-methyl- (C/7) PO₁, 1,3-hexanediol, 5-methyl- (C7) n-BO₂₋₃, 1,4hexanediol (C6) (Me-E₂₋₅), 1,4-hexanediol (C6) PO₂; 1,4-hexanediol (C6) BO₁; 1,4-hexanediol, 2-methyl-/(C7)/ E_{6-8} ; 1,4-hexanediol, 2-methyl- (C7) PO₁; 1,4hexanediol, 2-methyl- (C/7) $n-BO_{2-3}$, 1,4-hexanediol, 3-methyl- (C7) E_{6-8} , 1,4hexanediol, 3-methyl- ($\rlap/C7$)/PO₁; 1,4-hexanediol, 3-methyl- (C7) n-BO₂₋₃; 1,4hexanediol, 4-methyl-/(C7) E_{6-8} ; 1,4-hexanediol, 4-methyl- (C7) PO_1 ; 1,4hexanediol, 4-methyl-/(C7) n-BO₂₋₃, 1,4-hexanediol, 5-methyl- (C7) E_{6-8} , 1,4hexanediol, 5-methyl-/(C7) PO₁, 1,4-hexanediol, 5-methyl- (C7) n-BO₂₋₃, 1,5hexanediol (C6) (Me-E₂₋₅); 1,5-hexanediol (C6) PO₂, 1,5-hexanediol (C6) BO₁; 1,5-hexanediol, 2-methyl- (C7) E₆₋₈; 1,5-hexanediol, 2-methyl- (C7) PO₁; 1,5hexanediol, 2-methyl- (C7) n-BO₂₋₃, 1,5-hexanediol, 3-methyl- (C7) E₆₋₈, 1,5hexanediol, 3-methyl- (C7) PO₁; 1,5-hexanediol, 3-methyl- (C7) n-BO₂₋₃; 1,5hexanediol, 4-methyl- (C7) E₆₋₈; 1,5-hexanediol, 4-methyl- (C7) PO₁; 1,5-hexanediol, 4-methyl- (C7) n-BO₂₋₃; 1,5-hexanediol, 5-methyl- (C7) E₆₋₈; 1,5-hexanediol, 5-methyl- (C7) PO₁; 1,5-hexanediol, 5-methyl- (C7) n-BO₂₋₃; 1,6-hexanediol (C6) (Me-E₁₋₂); 1,6-hexanediol (C6) PO₁₋₂; 1,6-hexanediol (C6) n-BO₄; 1,6-hexanediol, 2-methyl- (C7) E₂₋₅; 1,6-hexanediol, 2-methyl- (C7) n-BO₁; 1,6-hexanediol, 3-methyl- (C7) E₂₋₅; 1,6-hexanediol, 3-methyl- (C7) n-BO₁; 2,3-hexanediol (C6) E₂₋₅; 2,3-hexanediol (C6) n-BO₁; 2,4-hexanediol (C6) (Me-E₅₋₈); 2,4-hexanediol (C6) PO₃; 2,4-hexanediol, 2-methyl- (C7) (Me-E₁₋₂); 2,4-hexanediol 3-methyl- (C7) PO₁₋₂; 2,4-hexanediol, 3-methyl- (C7) (Me-E₁₋₂); 2,4-hexanediol 4-methyl- (C7) PO₁₋₂; 2,4-hexanediol, 5-methyl- (C7) (Me-E₁₋₂); 2,4-hexanediol 5-methyl- (C7) PO₁₋₂; 2,5-hexanediol (C6) (Me-E₅₋₈) 2,5-hexanediol (C6) PO₃; 2,5-hexanediol, 2-methyl- (C7) (Me-E₁₋₂); 2,5-hexanediol 2-methyl- (C7) PO₁₋₂; 2,5-hexanediol, 3-methyl- (C7) (Me-E₁₋₂); 2,5-hexanediol, 3-methyl- (C7) (Me-E₁₋₂);

- 5. 1,3-heptanediol (C7) E₃₋₆; 1,3-heptanediol (C7) PO₁; 1,3-heptanediol (C7) n-BO₂; 1,4-heptanediol (C7) E₃₋₆; 1,4-heptanediol (C7) PO₁; 1,4-heptanediol (C7) n-BO₂; 1,5-heptanediol (C7) E₃₋₆; 1,5-heptanediol (C7) PO₁; 1,5-heptanediol (C7) n-BO₂; 1,6-heptanediol (C7) E₃₋₆; 1,6-heptanediol (C7) PO₁; 1,6-heptanediol (C7) n-BO₂; 1,7-heptanediol (C7) E₁₋₂; 1,7-heptanediol (C7) n-BO₁; 2,4-heptanediol (C7) E₇₋₁₀; 2,4-heptanediol (C7) (Me-E₁); 2,4-heptanediol (C7) PO₁; 2,4-heptanediol (C7) n-BO₃; 2,5-heptanediol (C7) E₇₋₁₀; 2,5-heptanediol (C7) n-BO₃; 2,6-heptanediol (C7) E₇₋₁₀; 2,6-heptanediol (C7) PO₁; 2,6-heptanediol (C7) n-BO₃; 3,5-heptanediol (C7) E₇₋₁₀; 3,5-heptanediol (C7) (Me-E₁); 3,5-heptanediol (C7) n-BO₃; 3,5-heptanediol (C7) n-BO₃;
- 6. 1,3-butanediol, 3-methyl-2-isopropyl- (C8) PO₁; 2,4-pentanediol, 2,3,3-trimethyl- (C8) PO₁; 1,3-butanediol, 2,2-diethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,3-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,5-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 3,3-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 3,4-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 3,5-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 4,5-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 5,5-dimethyl- (C8) E_{2-5} ; 2,5-hexanediol, 2,3-dimethyl- (C8) E_{2-5} ; 2,5-hexanediol, 2,4-dimethyl- (C8) E_{2-5} ; 2,5-hexanediol, 3,4-dimethyl- (C8) E_{2-5} ; 2,5-hexanediol, 3,3-dimethyl- (C8) E_{2-5} ; 2,5-hexanediol, 3,4-dimethyl- (C8) E_{2-5} ; 3,5-heptanediol, 3-methyl- (C8) E_{2-5} ; 1,3-butanediol, 2,2-diethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,3-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,4-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,5-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,4-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,5-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,4-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,5-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,4-dimethyl- (C8) E_{2-5} ; 2,5-hexanediol, 2,5-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,4-dimethyl- (C8) E_{2-5} ; 2,5-hexanediol, 2,2-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,5-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,4-dimethyl- (C8) E_{2-5} ; 2,5-hexanediol, 2,4-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,4-dimethyl- (C8) E_{2-5} ; 2,5-hexanediol, 2,4-dimethyl- (C8) E_{2-5} ; 2,5-hexanediol, 2,4

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hexanediol, 3,3-dimethyl- (C8) n-BO₁₋₂; 2,4-hexanediol, 3,4/dimethyl- (C8) n-BØ₁₋ 2; 2,4-hexanediol, 3,5-dimethyl- (C8) n-BO₁₋₂; 2,4-hexanediol, 4,5-dimethyl- (C8) n-BO₁₋₂, 2,4-hexanediol, 5,5-dimethyl-, n-BO₁₋₂, 2,5-hexanediol, 2,3-dimethyl-(C8) n-BO₁₋₂, 2,5-hexanediol, 2,4-dimethyl- (C8) n-BO₁₋₂; 2,5-hexanediol, 2,5dimethyl- (C8) n-BO₁₋₂, 2,5-hexanediol, 3,3-dimethyl- (C8) n-BO₁₋₂, 2,5hexanediol, 3,4-dimethyl- (C8) n-BO₁₋₂, 3,5-heptanediol, 3-methyl- (C8) n-BO₁₋₂, 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) n-BO1; 1,3-butanediol, 2-ethyl-2,3dimethyl- (C8) n-BO₁, 1,3-butanediol, 2-methyl-2-isopropyl-/(C8) n-BO₁, 1,4butanediol, 3-methyl-2-isopropyl- (C8) n-BO1; /1,3-pentanediol, 2,2,3-trimethyl-(C8) n-BO₁; 1,3-pentanediol, 2,2,4-trimethyl- (\$\frac{1}{2}\$) n-BO₁; 1,3-pentanediol, 2,4,4trimethyl- (C8) n-BO₁, 1,3-pentanediol, 3/4,4-trimethyl- (C8) n-BO₁, 1,4pentanediol, 2,2,3-trimethyl- (C8) n-BO1; 1,4/pentanediol, 2,2,4-trimethyl- (C8) n-BO₁; 1,4-pentanediol, 2,3,3-trimethyl- (C8) n/BO₁; 1,4/pentanediol, 2,3,4-trimethyl-(C8) n-BO₁; 1,4-pentanediol, 3,3,4-trimeth/l- (C8) n/BO₁; 2,4-pentanediol, 2,3,4trimethyl- (C8) n-BO₁; 2,4-hexanediol, 4/ethyl- (C8) n-BO₁; 2,4-heptanediol, 2methyl- (C8) n-BO₁, 2,4-heptanediol, 3/methyl- (C8) n-BO₁; 2,4-heptanediol, 4methyl- (C8) n-BO₁, 2,4-heptanediol, \$-methyl-/(C8) n-BO₁, 2,4-heptanediol, 6methyl- (C8) n-BO1; 2,5-heptanediol, /2-methyl- (C8) n-BO1; /2,5-heptanediol, 3methyl- (C8) n-BO₁; 2,5-heptanediol/4-methyl- (C8) n-BO₁; 2,5-heptanediol, 5methyl- (C8) n-BO1; 2,5-heptanediol, h-methyl- (C8) n-BO1; 2,6-heptanediol, 2methyl- (C8) n-BO1; 2,6-heptanediol, /3-methyl- (C8) n-BO1; 2,6-heptanediol, 4methyl- (C8) n-BO1; 3,5-heptanediol/ 2 methyl- (C8) n-BO1; 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) $E_{1/3}$; $\sqrt{3}$ -bytanediol, 2-ethyl-2,3-dimethyl- (C8) E_{1-3} , 1,3-butanediol, 2-methyl-2-isopropyl-/(C8) E₁₋₃; 1,4-butanediol, 3-methyl-2isopropyl- (C8) E₁₋₃; 1,3-pentanediol/ 2,2,3-trimethyl- (C8) E₁₋₃; 1,3-pentanediol. 2,2,4-trimethyl- (C8) E_{1-3} ; 1/3-pentanediol, 2,4,4-trimethyl- (C8) E_{1-3} ; 1,3pentanediol, 3,4,4-trimethyl- (C8) E_{1-3} , 1,4-pentanediol, 2,2,3-trimethyl- (C8) E_{1-3} , 1,4-pentanediol, 2,2,4-trimethyl- (C8) E_{1-3} ; 1,4-pentanediol, 2,3,3-trimethyl- (C8) E_{1-3} , 1,4-pentanediol, 2,3,4-trimethyl- (C8) E_{1-3} , 1,4-pentanediol, 3,3,4-trimethyl-(C8) E_{1-3} , 2,4-pentanediol, 2/3,4-trimethyl- (C8) E_{1-3} , 2,4-hexanediol, 4-ethyl- (C8) E_{1-3} , 2,4-heptanediol, 2-me/hyl- (C8) E_{1-3} , 2,4-heptanediol, 3-methyl- (C8) E_{1-3} . 2,4-heptanediol, 4-methyl-/(C8) E_{1-3} , 2,4-heptanediol, 5-methyl- (C8) E_{1-3} , 2,4heptanediol, 6-methyl- (Q8) E_{1-3} , 2,5-heptanediol, 2-methyl- (C8) E_{1-3} , 2,5heptanediol, 3-methyl- (C8) E_{1-3} ; 2,5-heptanediol, 4-methyl- (C8) E_{1-3} ; 2,5heptanediol, 5-methyl- (C8) E_{1-3} ; 2,5-heptanediol, 6-methyl- (C8) E_{1-3} ; 2,6heptanediol, 2-methyl- (C8) E_{1-3} ; 2,6-heptanediol, 3-methyl- (C8) E_{1-3} ; 2,6heptanediol, 4-methyl- (C8) E_{1-3} ; and/or 3,5-heptanediol, 2-methyl- (C8) E_{1-3} ; and

mixtures thereof.

- The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of: 1-phenyl-1,2-ethanediol; 1-phenyl-1,2-propanediol; 2-phenyl-1,2-propanediol; 3-phenyl-1,2-propanediol; 1-(3-methylphenyl)-1,3-propanediol; 1-(4-methylphenyl)-1,3-propanediol; 2-methyl-1-phenyl-1,3-propanediol; 1-phenyl-1,3-butanediol; 1-phenyl-1,3-butanediol; 1-phenyl-1,4-butanediol; 1-phenyl-2,3-butanediol; and mixtures thereof.
- 37. The composition of Claim 36 wherein said principal solvent is selected from the group consisting of:
 1-phenyl-1,2-ethanediol; 1-phenyl-1,2-propanediol; 2-phenyl-1,2-propanediol; 3-phenyl-1,2-propanediol; 1-(3-methylphenyl)-1,3-propanediol; 1-(4-methylphenyl)-1,3-propanediol; 2-methyl-1-phenyl-1,3-propanediol; 1-phenyl-1,3-butanediol; 3-phenyl-1,3-butanediol; 1-phenyl-1,4-butanediol; and mixtures thereof.
- The composition of Claim 37 wherein said principal solvent is selected from the group consisting of:

 1-phenyl-1,2-propanediol; 2-phenyl-1/2-propanediol; 3-phenyl-1,2-propanediol; 1-(3-methylphenyl)-1,3-propanediol; 1-(4-methylphenyl)-1,3-propanediol; 2-methylphenyl-1,3-propanediol; and or 1-phenyl-1/4-butanediol; and mixtures thereof.
- 39. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of: solvents are homologs, or analogs, of the parent compounds below where one, or more, CH₂ groups are added while, for each CH₂ group added, two hydrogen atoms are removed from adjacent carbon atoms in the molecule to form one carbon-carbon double bond, thus holding the number of hydrogen atoms in the molecule constant, the parent compounds including the following:
- I. / mono-ols including:
 - a. n-propanoj; and/or
 - b. 2-butanol/or 2-methyl-2-propanol;
- II. hexane diol isomers including: 2,3-butanediol, 2,3-dimethyl-; 1,2-butanediol, 2,3-dimethyl-; 1,2-butanediol, 3,3-dimethyl-; 2,3-pentanediol, 2-methyl-; 2,3-pentanediol, 3-methyl-; 2,3-pentanediol; 3,4-hexanediol;

1,2-butanediol, 2-ethyl-, 1,2-pentanediol, 2-methyl-, 1,2-pentanediol, 4-methyl-, and/or 1,2-hexanediol;

heptane diol isomers including: 1,3-propanediol, 2-butyl-; 1,3-propanediol, 2.2-diethyl-, 1,3-propanediol, 2-(1-methylpropyl)-; 1,3-propanediol, methylpropyl)-, 1,3-propanediol, 2-methyl-2-propyl-, 1,2-butanediol, 2,3,3-trimethyl-; 1,4-butanediol, 2-ethyl-2-methyl-; 1,4-butanediol, 2-ethyl-3-methyl-, 1,4-butanediol, 2-propyl-; 1,4-butanediol, 2-isopropyl-, /1,5-pentanediol, 2/2-dimethyl-; pentanediol, 2,3-dimethyl-, 1,5-pentanediol, 2,4-dimethyl-, 1,5-pentanediol, 3,3dimethyl-, 2,3-pentanediol, 2,3-dimethyl-, 2,3-pentanediol, 2,4-dimethyl-, 2,3pentanediol, 3,4-dimethyl-; 2,3-pentanediol, 4,4-dimethyl-, 3,4-pentanediol, 2,3dimethyl-, 1,5-pentanediol, 2-ethyl-; 1,6-hexanediol, 2-methyl-; 1,6-hexanediol, 3methyl-, 2,3-hexanediol, 2-methyl-, 2,3-hexanediol, 3-methyl-, 2,3-hexanediol, 4methyl-; 2,3-hexanediol, 5-methyl-; 3/4-hexanediol, 2/methyl-; 3,4-hexanediol, 3methyl-; 1,3-heptanediol; 1,4-heptanediol; 1,5-heptanediol; and/or 1,6-heptanediol; octane diol isomers including: 1,3-propanediol, 2-(2-methylbutyl)-; 1,3-IV. propanediol, 2-(1,1-dimethylpropyl)-, 1,3-propanediol, 2-(1,2-dimethylpropyl)-, 1,3-/1,3-propanediol, propanediol 2-(1-ethylpr/opyl)-; 2-(1/methylbutyl)-; 1,3propanediol, 2-(2,2-dimethylpropy) -, 1,3-propanediol, /2-(3-methylbutyl)-, 1.3propanediol. 2-butyl-2-methyl-;// 1,3-propanediol, /2-ethyl-2-isopropyl-, propanediol, 2-ethyl-2-propyl-; 1,3-propanediol, 2-methyl-2-(1-methylpropyl)-; 1,3-2-methyl-2-(2-methylpropyl)-; /,3-propanediol, 2-tertiary-butyl-2propanediol, methyl-, 1,3-butanediol, 2,2-diethyl-, 1,3-butanediol, 2-(1-methylpropyl)-, 1,3butanediol, 2-butyl-; 1,3-butanediol, 2-ethyl-2,3-dimethyl-; 1,3-butanediol, 2-(1,1dimethylethyl)-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-methyl-2isopropyl-; 1,3-butanediol, 2-methyl-2-propyl-; 1,3-butanediol, 3-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2/propyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2methyl-2-propyl-; 1,4-butanediol, 2-(1-methylpropyl)-; 1,4-butanediol, 2-ethyl-2,3dimethyl-: 1,4-butanedigl, 2-ethyl-3,3-dimethyl-; 1.4-butanediol. dimethylethyl)-; 1,4-butar/ediol, 2-(2-methylpropyl)-; 1,4-butanediol, 2-methyl-3propyl-, 1,4-butanediol, /3-methyl-2-isopropyl-, 1,3-pentanediol, 2,2,3-trimethyl-, 1,3-pentanediol, 2,2,4-trimethyl-; 1,3-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2,4,4-trimethyl-; 1,3-pentanediol, 3,4,4-trimethyl-; 1,4-pentanediol, 2,2,3-trimethyl-; 1,4-pentanediol, 2,2,4-mmethyl-; 1,4-pentanediol, 2,3,3-trimethyl-; 1,4-pentanediol, 2,3,4-trimethyl-; 1,4-pghtanediol, 3,3,4-trimethyl-; 1,5-pentanediol, 2,2,3-trimethyl-; 1,5-pentanediol, 2,2,4/trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 1,5-pentanediol, 2,3,4-trimethyl-; 2,4-pentanediol, 2,3,3-trimethyl-; 2,4-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, /2-ethyl-2-methyl-; 1,3-pentanediol, 2-ethyl-3-methyl-;

pentanediol, 2-ethyl-4-methyl-; 1,3-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-2-methyl-, 1,4-pentanediol, 2-ethyl-3-methyl-, 1,4-pentanediol, 2-ethyl-4methyl-; 1,4-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 3-ethyl-3-methyl-; 1,5pentanediol, 2-ethyl-2-methyl-; 1,5-pentanediol, 2-ethyl-3/methyl-; 1,5-pentanediol, 2-ethyl-4-methyl-; 1,5-pentanediol, 3-ethyl-3-methyl-; 2,4-pentanediol, 3-ethyl-2methyl-, 1,3-pentanediol, 2-isopropyl-, 1,3-pentanediol/ 2-propyl-, 1,4-pentanediol, 2-isopropyl-; 1,4-pentanediol, 2-propyl-; 1,4-penyanediol, 3/isopropyl-; pentanediol, 2-isopropyl-, 2,4-pentanediol, 3-propyl-/1,3-hexanediol, 2,2-dimethyl-, 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,4/dimethyl-; 1,3-hexanediol, 2,5dimethyl-: 1,3-hexanediol, 3,4-dimethyl-; 1,3-hexanediol/ 3,5-dimethyl-; 1,3hexanediol. 2.2-dimethyk; 4,5-dimethyl-: 1,4-hexanediol. 1,4-hexanediol, 2,3dimethyl-; 1,4-hexanediol. 2,4-dimethyl-; 1/4-hexanediol. 2,5-dimethyl-; 1,4hexanediol, 3.3-dimethyl-: 1,4-hexanediol. 3.4-dimethyl-: 1,4-hexanediol, 3,5dimethyl-; 1,3-hexanediol, 1.4-hexanediol, 4,4-dimethyl-; 4,5-dimethyl-; 1,4hexanediol, 5,5-dimethyl-; 1,5-hexanedig 2,2-dimethyl-: 1,5-hexanediol, 2,3dimethyl-; 1,5-hexanediol, 2,4-dimethyl-1,5-hexanediol, 2,5-dimethyl-; 1,5hexanediol. 3,3-dimethyl-; 1,5-hexanediol 3,4-dimethyl-; 1,5-hexanediol, 3,5dimethyl-; 1,5-hexanediol. 4,5-dimethyl; 1,6-hexanediol, 2,2-dimethyl-; 1,6hexanediol. 2,3-dimethyl-; 2,4-dimethyl-; 1,6-hexanediol, 1,6-hexanediol, 2,5dimethyl-; 1,6-hexanediol, 3,3-dimethyl-; ,6-hexanediol, 3,4-dimethyl-; 2.4hexanediol, 2,3-dimethyl-; 2,4-dimethyl-; 2.4-hexanediol. 2.4-hexanediol. 2,5dimethyl-; 2,4-hexanediol, 3.3-dimethyl-; 2,4-hexanediol, 3.4-dimethyl-; 2.4hexanediol, 3,5-dimethyl-; 4 hexanediøl, 4,5-dimethyl-; 2.4-hexanediol. 5,5dimethyl-; 2,5-hexanediol 2,4-dimethyl-, 2,3-dimethyl-: 2,5-hexanediol, 2,5hexanediol, 2,5-dimethyl-; 2,5-hexamediol. 3\3-dimethyl-; 2,5-hexanediol, dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3-hexanediol, 2-ethyl-; 1,3-hexanediol, 4ethyl-; 1,4-hexanediol, 2-ethyl-; 1,4-hexanediol, 4-ethyl-; 1,5-hexanediol, 2-ethyl-, 2,4-hexanediol, 3-ethyl-, 2,4-hexanediol, 4-ethyl-, 2,5-hexanediol, 3-ethyl-, 1,3heptanediol, 2-methyl-; 1,3-heptanediol, 3-methyl-; 1,3-heptanediol, 4-methyl-; 1,3heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,4-heptanediol, 2-methyl-; 1,4heptanediol, 3-methyl-; 1,4-heptanediol, 4-methyl-; 1,4-heptanediol, 5-methyl-; 1,4heptanediol, 6-methyl-; 1,5-heptanediol, 2-methyl-; 1,5-heptanediol, 3-methyl-; 1,5heptanediol, 4-methyl-, 1,5-heptanediol, 5-methyl-, 1,5-heptanediol, 6-methyl-, 1,6heptanediol, 2-methyl-, 1,6-heptanediol, 3-methyl-, 1,6-heptanediol, 4-methyl-, 1,6heptanediol, 5-methyl-, 1,6-heptanediol, 6-methyl-, 2,4-heptanediol, 2-methyl-, 2,4heptanediol, 3-methyl-, 2,4-heptanediol, 4-methyl-, 2,4-heptanediol, 5-methyl-, 2,4heptanediol, 6-methyl-; 2,\$-heptanediol, 2-methyl-; 2,5-heptanediol, 3-methyl-; 2,5====

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heptanediol, 4-methyl-; 2,5-heptanediol, 5-methyl-; 2,5-heptanediol, 6-methyl-; 2,6-heptanediol, 2-methyl-; 2,6-heptanediol, 3-methyl-; 3,4-heptanediol, 3-methyl-; 3,5-heptanediol, 3-methyl-; 3,5-heptanediol, 3-methyl-; 3,5-heptanediol, 4-methyl-; 2,4-octanediol; 2,5-octanediol; 2,6-octanediol; 2,7-octanediol; 3,5-octanediol; and/or 3,6-octanediol;

V. nonane diol isomers including: 2,4-pentanediol, 2,3,3,4-tetramethyl-, 2,4-pentanediol, 3-tertiarybutyl-, 2,4-hexanediol, 2,5,5-trimethyl-, 2,4-hexanediol, 3,3,4-trimethyl-, 2,4-hexanediol, 3,3,5-trimethyl-, 2,4-hexanediol, 3,5,5-trimethyl-, 2,4-hexanediol, 4,5,5-trimethyl-, 2,5-hexanediol, 3,3,4-trimethyl-, and/or 2,5-hexanediol, 3,3,5-trimethyl-;

glyceryl ethers and/or di(hydroxyalkyl)ethers including: 1,2-propanediol, 3-VI. (n-pentyloxy)-; 1,2-propanediol, 3-(2-pentyloxy)-; 1,2-propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3-(2-methyl-1-butyloxy)-; 1/2-propanediol, 3-(iso-amyloxy)-; 1,2propanediol, 3-(3-methyl-2-butyloxy)-, 1,2/propanediol, 3-(cyclohexyloxy)-, 1,2propanediol, 3-(1-cyclohex-1-enyloxy)-; /1,3-propanediol, 2-(pentyloxy)-; propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol/2-(iso-amyloxy)-; 1,3-propanediol, 2-(3methyl-2-butyloxy)-; 1,3-propanediol, /2-(cyclohexyloxy)-; 1,3-propanediol, 2-(1cyclohex-1-enyloxy)-; 3/(butyloxy)-, 1,2-propanedial. triethoxylated/ propanediol. tetraethoxylared; 3-(butyloxy)-, 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloky)-, hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated; 1,2-propahediol, 3-(butyloxy)-, octaethoxylated; and/or 1,2-propanediol, 3-(butyloxy)-,/nonaethoxylated,

VII. saturated and unsaturated all cyclic diols and their derivatives including:

the saturated diols and their derivatives, including: (a) 1-isopropyl-1,2-cyclobutanediol, 3-ethyl-4-methyl-1,2-cyclobutanediol, 3-propyl-1,2cyclobutanediol; 3-isopropyl-1,2/cyclobutanediol; 1-ethyl-1,2-cyclopentanediol; 1,2dimethyl-1,2-cyclopentanediol; /1,4-dimethyl-1,2-cyclopentanediol; 2,4,5-trimethyl-1,3-cyclopentanediol; 3,3-dimethyl-1,2-cyclopentanediol; 3,4-dimethyl-1,2cyclopentanediol; 3,5-dimethyl-1,2-cyclopentanediol; 3-ethyl-1,2-cyclopentanediol; 4,4-dimethyl-1,2-cyclopentanediol; 4-ethyl-1,2-cyclopentanediol; 1,1bis(hydroxymethyl)cyclohexane; 1,2-bis(hydroxymethyl)cyclohexane; 1,2-dimethyl-1,3-cyclohexanediol; /1/3-bis(hydroxymethyl)cyclohexane; 1,3-dimethyl-1,3cyclohexanediol; 1,6-dimethyl-1,3-cyclohexanediol; 1-hydroxy-cyclohexaneethanol; 1-hydroxy-cyclohexanemethanol; 1-ethyl-1,3-cyclohexanediol; 1-methyl-1,2-2.2-dimethyl-1,3-cyclohexanediol; cyclohexanediol: 2,3-dimethyl-1,4cyclohexanediol: 2,4-dimethyl-1,3-cyclohexanediol; 2,5-dimethyl-1,3-

cyclohexanediol, 2,6-dimethyl-1,4-cyclohexanediol, 2-ethyl-1,3-cyclohexanediol, 2hydroxycyclohexaneethanol; 2-hydroxyethyl/1-cyclohexanol; 2hydroxymethylcyclohexanol; 3-hydroxyethyl-1-cyclohexanol; 3hydroxycyclohexaneethanol; 3-hydroxymethylcyclohexanol; 3-methyl-1,2cyclohexanediol: 4,4-dimethyl-1,3-cyclohexanediol; 4,5-dimethyl-1,3cyclohexanediol; 4,6-dimethyl-1,3-cyclohexanediol; 4-ethyl-1,3-cyclohexanediol; 4hydroxyethyl-1-cyclohexanol; 4-hydroxymethylcyclohexanol; 4-methyl-1,2cyclohexanediol; 5,5-dimethyl-1,3-cyclohexanediol; 5-ethyl-1,3-cyclohexanediol; 1,2cycloheptanediol; 2-methyl-1,3-cycloheptanediol; 2-methyl-1,4-cycloheptanediol; 4methyl-1,3-cycloheptanediol; 5-methyl-1 B-cycloheptanediol, 5-methyl-1,4cycloheptanediol; 6-methyl-1,4-cycloheptanediol; 1,3-c/clooctanediol; 1,4cyclooctanediol; 1,5-cyclooctanediol; 1,2-cyclohexanedio/, diethoxylate; 1,2cyclohexanediol, triethoxylate; 1,2-cyclohexanediol, tetraethoxylate; 1,2cyclohexanediol, pentaethoxylate; 1,2/cyclohexanedio1, hexaethoxylate; 1,2cyclohexanediol. heptaethoxylate; /2-cyclohexanodiol. octaethoxylate; 1,2cyclohexanediol, nonaethoxylate; /1,2-cyclohexanediol, monopropoxylate; 1,2cyclohexanediol, monobutylenoxylate; /1,2-cy/clohexanediol, dibutylenoxylate; and/or 1,2-cyclohexanediol, tributylenoxylate, and (b) the unsaturated alicyclic diols including 1,2-cyclobutanediol, 1-ethenyl-2-ethyl-3-cyclobutene-1,2-diol, 1,2,3,4-tetramethyl-, 3-cyclobutene-1,2-diol, 3,4-diethyl-, 3cyclobutene-1,2-diol, 3-(1,/-dimethylethyl)-; 3-cyclobutene-1,2-diol, 3-butyl-; 1,2cyclopentanediol. 1,2-dimethyl-4/methylene-; 1,2-cyclopentanediol, 1-ethyl-3methylene-, 1,2-cyclopentanedio),/4-(1-propenyl), 3-cyclopentene-1,2-diol, 1-ethyl-3-1,2-cyclohexanediol, methyl-; l-ethenyl-; 1,2-cyclohexanediol, methylene-; 1,2-cyclohexanediol, 1-methyl-1-methylene-; 1,2-cyclohexanediol, 3ethenyl-, 1,2-cyclohexanediol, A-ethenyl-, 3-cyclohexene-1,2-diol, 2,6-dimethyl-, 3cyclohexene-1,2-diol, 6,6-dimethyl-; 4-cyclohexene-1,2-diol, 3,6-dimethyl-; 4cyclohexene-1,2-diol, 4,5-dimethyl-, 3-cyclooctene-1,2-diol, 4-cyclooctene-1,2-diol, and/or 5-cycloogtene-1,2-dio/;

VIII. Alkoxylated derivatives of C3-8 diols including:

1. 1,2-propanediol (C3) 2(Me- E_{11-14}); 1,2-propanediol (C3) PO₄; 1,2-propanediol (C3) BO₁; 1,2-propanediol, 2-methyl- (C4) (Me- E_{4-10}); 1,2-propanediol, 2-methyl- (C4) 2(Me- E_1); 1,2-propanediol, 2-methyl- (C4) PO₃; 1,2-propanediol, 2-methyl- (C4) n-BO₁₋₂; 1,3-propanediol (C3) 2(Me- E_{6-8}); 1,3-propanediol (C3) PO₅₋₆; 1,3-propanediol, 2,2-diethyl- (C7) E₁₋₇; 1,3-propanediol, 2,2-diethyl- (C7) PO₁; 1,3-propanediol, 2,2-dimethyl- (C5) 2(Me E_{1-2}); 1,3-propanediol, 2,2-dimethyl- (C5) PO₃₋₄; 1,3-propanediol, 2,2-dimethyl- (C5

propanediol, 2-(1-methylpropyl)- (C7) E₁₋₇, 1,3-propanediol, 2-(1-methylpropyl) (C7) PO₁; 1,3-propanediol, 2-(1-methylpropyl)- (C7) n/BO₁₋₂; 1,3-propanediol/2-(2-methylpropyl)- (C7) E_{1-7} ; 1,3-propanediol, 2-(2-methylpropyl)- (C7) $PO_1/1,3$ propanediol, 2-(2-methylpropyl)- (C7) n-BO₁₋₂; 1,3-propanediol, 2-ethyl- (Ø5) (Me E_{6-10}); 1,3-propanediol, 2-ethyl- (C5) 2(Me E_1)/ 1,3-propanediol, 2-ethyl- (C5) PO₃; 1,3-propanediol, 2-ethyl- (C5) BO₁; 1,3-propanediol, 2-ethyl-2-methyl- (C6) (Me E₁₋₆); 1,3-propanediol, 2-ethyl-2-methyl- (Cp) PO₂; 1,3-propanediol, 2-ethyl-2methyl- (C6) BO₁; 1,3-propanediol, 2-isopropy/- (C6) (Me E₁₋₆), 1,3-propanediol, 2-isopropyl- (C6) PO₂, 1,3-propanediol, 2-isopropyl- (C6) BO₁/1,3-propanediol, 2methyl- (C4) 2(Me E₂₋₅); 1,3-propanediol, 2/methyl- (C4) PØ₄₋₅; 1,3-propanediol, 2-methyl- (C4) BO₂; 1,3-propanediol, 2/methyl-2-isopropyl- (C7) E₂₋₉; 1,3-2-methyl-2-isopropyl- (C7)/ PO₁; 1,3-propanediol, 2-methyl-2propanediol, isopropyl- (C7) n-BO₁₋₃, 1,3-propanediol, 2-methyl-2-propyl- (C7) E₁₋₇, 1,3propanediol, 2-methyl-2-propyl- (C7) PO1; 1,3-propanediol, 2-methyl-2-propyl-(C7) n-BO₁₋₂; 1,3-propanediol, 2-propyl- (C6) (Me E₁₁₋₁₄); 1,3-propanediol, 2propyl- (C6) PO2; 1,3-propanediol, 2-propyl- (C6) BO1;

1,2-butanediol (C4) (Me E₂₋₈); 1,2-butanediol (C4) PO₂₋₃; 1,2butanediol (C4) BO₁; 1,2-butanediol, /2,3-dimethyl- (C6) E₁₋₆; 1,2-butanediol, 2,3dimethyl- (C6) BO₁₋₂; 1,2-butanediol, 2-ethyl- (C6) E₁₋₃; 1,2-butanediol, 2-ethyl-(C6) BO₁, 1,2-butanediol, 2-methyl- (C5) PO₁; 1,2-butanediol, 3,3-dimethyl- (C6) 1,2-butanediol, 3,3-dimethyl- (C6) BO₁₋₂, 1,2-butanediol, 3-methyl- (C5) (Ne E₁₋₂); 1,2-butanediol, 3-methyl- (C5) PO; 1,3-butanediol (C4) 20Me E/1/1/4); 1,3-butanediol (C4) PØ5; 1,3-butanediol (C4) BO₂, 1,3-butanediol, 2,2,3-trimethyl (C7) (Me E₁₋₃), 1,3-butanediol, 2,2,3trimethyl- (C7) PO₁₋₂; 1,3-bytanediol, 2,2-dimethyl- (C6) (Me E₃₋₈); 1,3butanediol, 2,2-dimethyl- (C6) PO3; 1,3-butanediol, 2,3-dimethyl- (C6) (Me E₃₋₈); 1,3-butanediol, 2,3-dimethyl- (ϕ) PO₃; 1,3-butanediol, 2-ethyl- (C6) (Me E₁₋₆), 1,3-butanediol, 2-ethyl- (C6)/PO₂₋₃; 1,3-butanediol, 2-ethyl- (C6) BO₁; 1,3butanediol, 2-ethyl--2-methyl- (C7) (Me E₁); 1,3-butanediol, 2-ethyl--2-methyl- (C7) PO₁; 1,3-butanediol, 2-ethyl $\frac{L}{L}$ 2-methyl- (C7) n-BO₂₋₄; 1,3-butanediol, 2-ethyl-3methyl- (C7) (Me E₁); 1,3-butanediol, 2-ethyl-3-methyl- (C7) PO₁; 1,3-butanediol, 2-ethyl-3-methyl- (C7) n-BO₂₋₄; 1,3-butanediol, 2-isopropyl- (C7) (Me E₁), 1,3butanediol, 2-isopropyl- (C/) PO1, 1,3-butanediol, 2-isopropyl- (C7) n-BO2-4, 1,3butanediol, 2-methyl- (C5) 2(Me E₁₋₃); 1,3-butanediol, 2-methyl- (C5) PO₄, 1,3butanediol, 2-propyl- (C7)/E₂₋₉, 1,3-butanediol, 2-propyl- (C7) PO₁; 1,3-butanediol, 2-propyl- (C7) n-BO₁₋₃; h,3-butanediol, 3-methyl- (C5) 2(Me E₁₋₃); 1,3-butanediol, 3-methyl- (C5) PO₄; 1/4-butanediol (C4) 2(Me E₂₋₄); 1,4-butanediol (C4) PO₄₋₅;

1,4-butanediol (C4) BO₂, 1,4-butanediol, 2,2,3-trimethyl- (C/I) E₂₋₉, 1,4-butanediol, 2,2,3-trimethyl- (C7) PO₁; 1,4-butanediol, 2,2,3-trimethyl- (C7) $n-BO_{1-3}$; 1,4butanediol, 2,2-dimethyl- (C6) (Me E₁₋₆); 1,4-butanediol, 2,2-dimethyl- (C6) PO₂; 1,4-butanediol, 2,2-dimethyl- (C6) BO₁; 1,4-butanediol, $\frac{1}{2}$,3-dimethyl- (C6) (Me E₁-6); 1,4-butanediol, 2,3-dimethyl- (C6) PO2; 1,4-butanediol, 2,3-dimethyl- (C6) BO1; 1,4-butanediol, 2-ethyl- (C6) (Me E₁₁₋₁₄); 1,4-butanediol, 2-ethyl- (C6) PO₂; 1,4butanediol, 2-ethyl- (C6) BO1; 1,4-butanediol, 2-ethyl-2-methyl- (C7) E1-7; 1,4butanediol, 2-ethyl-2-methyl- (C7) PO1; 1,4-butanediol, 2-ethyl-2-methyl- (C7) n- BO_{1-2} , 1,4-butanediol, 2-ethyl-3-methyl- (C7)/ E_{1-7} ; 1,4-butanediol, 2-ethyl-3methyl- (C7) PO₁; 1,4-butanediol, 2-ethyl-3-methyl- (C7)/n-BO₁₋₂; 1,4-butanediol, 2-isopropyl- (C7) E₁₋₇; 1,4-butanediol, 2-isopropyl- (C7) PO₁; 1,4-butanediol, 2isopropyl- (C7) n-BO₁₋₂; 1,4-butanediol, /2-methyl- (C5) (Me E_{6-10}); 1,4butanediol, 2-methyl- (C5) 2(Me E1); 1,4-butanediol, 2-methyl- (C5) PO3; 1,4butanediol, 2-methyl- (C5) BO₁; 1,4-bytanediol, 2-propyl- (C7) E₁₋₅; 1,4butanediol, 2-propyl- (C7) n-BO₁₋₂; 1,4 butanediol, 3-ethyl-1-methyl- (C7) E₂₋₉; 1,4-butanediol, 3-ethyl-1-methyl- (C7) $p\phi_1$;/1,4-butanediol, 3-ethyl-1-methyl- (C7) n-BO₁₋₃, 2,3-butanediol (C4) (Me/ $E_{1/-6}$); 2, $\frac{1}{2}$ -butanediol (C4) 2(Me E_{1}); 2,3butanediol (C4) PO₃₋₄; 2,3-butanediol (C4) BO₁; 2,3-butanediol, 2,3-dimethyl- (C6) E₃₋₉; 2,3-butanediol, 2,3-dimethyl- (\cancel{Q} 6) P \cancel{Q} 1; 2,3-butanediol, 2,3-dimethyl (C6) BO_{1-3} ; 2,3-butanediol, 2-methyl- (C5) (Mg/E₁₋₅); 2,3-butanediol, 2-methyl- (C5) 2PO₂; 2,3-butanediol, 2-methyl- (C5) h-BO/1; 2,3-butanediol, 2-methyl- (C5) BO₁;

1,2-pentanediol (C5)/ E/3-10; 1,2-pentanediol, (C5) PO₁; 1,2pentanediol, (C5) n-BO₂₋₃; / 2-pentanediol 2-methyl (C6) E₁₋₃; 1,2-pentanediol, 2methyl (C6) n-BO1; 1,2-pentanediol./2-methyl (C6) BO1, 1,2-pentanediol, 3-methyl (C6) E₁₋₃, 1,2-pentanediol, 3-methyl (C6) n-BO₁, 1,2-pentanediol, 3-methyl (C6) BO₁; 1,2-pentanediol, 4-methyl (¢6) E₁₋₃; 1,2-pentanediol, 4-methyl (C6) n-BO₁; 1,2-pentanediol, 4-methyl (C6)/ BO_1 ; 1,3-pentanediol (C5) 2(Me- E_{1-2}); 1,3pentanediol (C5) PO₃₋₄; 1,3 pentanediol, 2,2-dimethyl- (C7) (Me-E₁); 1,3pentanediol, 2,2-dimethyl- (C7)/PO1; 1,3-pentanediol, 2,2-dimethyl- (C7) n-BO2-4; 1,3-pentanediol, 2,3-dimethyl- (C7) (Me-E₁); 1,3-pentanediol, 2,3-dimethyl- (C7) PO₁; 1,3-pentanediol, 2,3-dimethyl- (C7) n-BO₂₋₄; 1,3-pentanediol, 2,4-dimethyl-(C7) (Me-E₁); 1,3-pentaned ol, 2,4-dimethyl- (C7) PO₁; 1,3-pentanediol, 2,4dimethyl- (C7) n-BO₂₋₄; 1,3-pentanediol, 2-ethyl- (C7) E₂₋₉; 1,3-pentanediol, 2ethyl-(C7) PO₁; 1,3-pentanediol, 2-ethyl-(C7) n-BO₁₋₃; 1,3-pentanediol, 2-methyl-(C6) 2(Me-E₁₋₆); 1,3-pentanediol, 2-methyl- (C6) PO₂₋₃; 1,3-pentanediol, 2methyl- (C6) n-BO₁; 1,3-pentanediol, 2-methyl- (C6) BO₁; 1,3-pentanediol, 3,4dimethyl- (C7) (Me-E₁); 1/3-pentanediol, 3,4-dimethyl- (C7) PO₁; 1,3-pentanediol,

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3,4-dimethyl- (C7) n-BO₂₋₄, 1,3-pentanediol, 3-methyl- (C6) $2(Me-E_{1-6})$; 1,3pentanediol, 3-methyl- (C6) PO₂₋₃; 1,3-pentanediol, 3-methyl- (C6) n-BO₁; 1,3pentanediol, 3-methyl- (C6) BO₁, 1,3-pentanediol, 4,4-dynethyl- (C7) (Me-E₁), 1,3pentanediol, 4,4-dimethyl- (C7) PO₁; 1,3-pentanediol, 4,4-dimethyl- (C7) n-BO₂₋₄; 1,3-pentanediol, 4-methyl- (C6) 2(Me-E₁₋₆); 1,3-pentanediol, 4-methyl- (C6) PO₂-3; 1,3-pentanediol, 4-methyl- (C6) BO₁; 1,4-pentanediol, (C5) /2(Me-E₁₋₂); 1,4pentanediol (C5) PO₃₋₄, 1,4-pentanediol, 2,2/dimethyl- (Q7) (Me-E₁), 1,4pentanediol, 2,2-dimethyl- (C7) PO₁, 1,4-pentanediol, 2,2-dimethyl- (C7) n-BO₂₋₄; 1,4-pentanediol, 2,3-dimethyl- (C7) (Me-E₁); /1,4-pentanediol, 2,3-dimethyl- (C7) PO₁, 1,4-pentanediol, 2,3-dimethyl- (C7) n-BO₂₋₄; 1,4-pentanediol, 2,4-dimethyl-(C7) (Me-E₁); 1,4-pentanediol, 2,4-dimethyl- (C7) PO_1 ; 1,4-pentanediol, 2,4dimethyl- (C7) n-BO₂₋₄; 1,4-pentanediol, 2-methyl- (C6) (Me-E₁₋₆); 1,4pentanediol, 2-methyl- (C6) PO₂₋₃; 1,4-pentanediol, /2-methyl- (C6) n-BO₁; 1,4pentanediol, 2-methyl- (C6) BO₁; 1,4-pentanediol, 3,3-dimethyl- (C7) (Me-E₁); 1,4pentanediol, 3,3-dimethyl- (C7) PO₁, 1,4/pentanediol, 3,3-dimethyl- (C7) n-BO₂₋₄, 1,4-pentanediol, 3,4-dimethyl- (C7) (Me-E₁); 1,4-pentanediol, 3,4-dimethyl- (C7) PO₁; 1,4-pentanediol, 3,4-dimethyl- (C#) n_xBO₂/4; 1,4-pentanediol, 3-methyl- (C6) $2(Me-E_{1-6})$, 1,4-pentanediol, /3-meth/l-/(C6) PO_{2-3} , 1,4-pentanediol, 3-methyl-(C6) BO₁, 1,4-pentanediol, 4-methyl-(C6) 2(Me-E₁₋₆), 1,4-pentanediol, 4-methyl-(C6) PO₂₋₃; 1,4-pentanediol, 4-methyl- (C6) BO₁; 1,5-pentanediol, (C5) (Me-E₄₋ 10), 1,5-pentanediol (C5)/2(Me-E₁), 1/5-pentanediol (C5) PO₂, 1,5-pentanediol, 2,2-dimethyl- (C7) E₁₋₇, 1,5-pentanediol, 2,2-dimethyl- (C7) PO₁, 1,5-pentanediol, 2,2-dimethyl- (C7) n-BO₁₋₂; /1/5-pentanediol, 2,3-dimethyl- (C7) E₁₋₇; 1,5pentanediol, 2,3-dimethyl- (C7) PO₁, 1,\(\frac{1}{2}\)-pentanediol, 2,3-dimethyl- (C7) n-BO₁₋₂. 1,5-pentanediol, 2,4-dimethyl- (Q7) E_{1-1} , 1,5-pentanediol, 2,4-dimethyl- (C7) PO₁. 1,5-pentanediol, 2,4-dimethyl- (C7) n- BO_{1-2} ; 1,5-pentanediol, 2-ethyl- (C7) E_{1-5} . 1,5-pentanediol, 2-ethyl- (C7) $\ln BO_1/2$, 1,5-pentanediol, 2-methyl- (C6) (Me-E₁₁-14); 1,5-pentanediol, 2-methyl- (C6)/ PO_2 ; 1,5-pentanediol, 3,3-dimethyl- (C7) E_{1-7} . 1,5-pentanediol, 3,3-dimethyl- (C7) PO₁; 1,5-pentanediol, 3,3-dimethyl- (C7) n- BO_{1-2} ; 1,5-pentanediol, 3-methyl- (C6) (Me- E_{11-14}); 1,5-pentanediol, 3-methyl-(C6) PO₂; 2,3-pentanediol, (C5) (Me- E_{1-3}); 2,3-pentanediol, (C5) PO₂; 2,3pentanediol, 2-methyl- (C6) E_{1-7} ; 2,3-pentanediol, 2-methyl- (C6) PO_1 ; 2,3pentanediol, 2-methyl- (C6) n-BO₁₋₂, 2,3-pentanediol, 3-methyl- (C6) E₁₋₇, 2,3pentanediol, 3-methyl- (C6) PO₁, 2,3-pentanediol, 3-methyl- (C6) n-BO₁₋₂, 2,3pentanediol, 4-methyl-/ (C6) E₁₋₇, 2,3-pentanediol, 4-methyl- (C6) PO₁, 2,3pentanediol, 4-methyl/ (C6) n-BO₁₋₂; 2,4-pentanediol, (C5) 2(Me-E₁₁₋₁₄); 2,4pentanediol (C5) PQ₄; 2,4-pentanediol, 2,3-dimethyl- (C7) (Me-E₁₁₋₁₄); 2,4pentanediol, 2,3-dimethyl- (C7) PO₂, 2,4-pentanediol, 2,4-dimethyl- (C7) (Me-E₁₁₋₁₄); 2,4-pentanediol, 2,4-dimethyl- (C7) PO₂, 2,4-pentanediol, 2-methyl- (C7) (Me-E₅₋₁₀); 2,4-pentanediol, 2-methyl- (C7) PO₃; 2,4-pentanediol, 3,3-dimethyl- (C7) (Me-E₁₁₋₁₄); 2,4-pentanediol, 3,3-dimethyl- (C7) PO₂, 2,4-pentanediol, 3-methyl- (C6) (Me-E₅₋₁₀); 2,4-pentanediol, 3-methyl- (C6) PO₃,

1,3-hexanediol (C6) (Me- E_{1-5}) 1,3-hexanediol (C6) PO₂, 1,3hexanediol (C6) BO₁; 1,3-hexanediol, 2-methyl-/(C7) E₂₋₉; 1,3-hexanediol, 2methyl- (C7) PO₁; 1,3-hexanediol, 2-methyl- (Q7) n-BO₁₋₃; 1,3-hexanediol, 2methyl- (C7) BO₁; 1,3-hexanediol, 3-methyl- (C7) E₂₋₉; 1,3-hexanediol, 3-methyl-(C7) PO₁; 1,3-hexanediol, 3-methyl- (C7) n-BØ₁₋₃; 1,3-hexanediol, 4-methyl- (C7) E₂₋₉; 1,3-hexanediol, 4-methyl- (C7) PO₁; 1,3-hexanediol, 4-methyl- (C7) n-BO₁₋₃; 1,3-hexanediol, 5-methyl- (C7) E₂₋₉; 1,3-hexanediol, 5-methyl- (C7) PO₁; 1,3hexanediol, 5-methyl- (C7) n-BO₁₋₃, 1,4-hexanediol (C6) (Me-E₁₋₅), 1,4-hexanediol (C6) PO₂; 1,4-hexanediol (C6) BO₁; 1/4-hexanediol, 2-methyl- (C7) E₂₋₉; 1,4hexanediol, 2-methyl- (C7) PO₁, 1,4-hexanediol/ 2-methyl- (C7) n-BO₁₋₃, 1,4hexanediol, 3-methyl- (C7) E2-9; /,4-hexanediol, 3-methyl- (C7) PO1; 1,4hexanediol, 3-methyl- (C7) n-BO₁/ $\frac{1}{3}$; 1,4-hexanediol, 4-methyl- (C7) E₂₋₉; 1,4hexanediol, 4-methyl- (C7) PO₁/1,4-hexanediol, 4-methyl- (C7) n-BO₁₋₃; 1,4hexanediol, 5-methyl- (C7) E/2-9, 1 Ahexanediol, 5-methyl- (C7) PO1, 1,4hexanediol, 5-methyl- (C7) n-BO_{1-B}, 1,5-hexanediol (C6) (Mé-E₁₋₅), 1,5-hexanediol (C6) PO₂; 1,5-hexanediol (C6) BO_1 1,5-hexanediol, 2-methyl- (C7) E₂₋₉; 1,5hexanediol, 2-methyl- (C7) PO1/, 1/3-hexanediol, 2-methyl- (C7) n-BO1-3; 1,5hexanediol, 3-methyl- (C7) E_{2-9} , 1,5-hexanediol, 3-methyl- (C7) PO₁, 1,5hexanediol, 3-methyl- (C7) $h-\beta Q_{1-3}$, 1,5-hexanediol, 4-methyl- (C7) E_{2-9} , 1,5hexanediol, 4-methyl- (C7) PO1; 1,5-hexanediol, 4-methyl- (C7) n-BO1-3; 1,5hexanediol, 5-methyl-(C7) E_{2-9} ; 1,5-hexanediol, 5-methyl-(C7) PO_1 ; 1,5hexanediol, 5-methyl-(C7) n/BO₁₋₃; 1,6-hexanediol (C6) (Me-E₁₋₂); 1,6-hexanediol (C6) PO_{1-2} ; 1,6-hexanediol/(C6) n-BO₄; 1,6-hexanediol, 2-methyl- (C7) E_{1-5} ; 1,6hexanediol, 2-methyl- (C7) n-BO₁₋₂, 1,6-hexanediol, 3-methyl- (C7) E_{1-5} , 1,6hexanediol, 3-methyl- (C7) n-BO₁₋₂; 2,3-hexanediol (C6) E_{1-5} ; 2,3-hexanediol (C6) n-BO₁; 2,3, hexanediol (£6) BO₁; 2.4-hexanediol (C6) (Me-E₃₋₈); 2,4-hexanediol (C6) PO₃, 2,4-hexanediol, 2-methyl- (C7) (Me- E_{1-2}), 2,4-hexanediol 2-methyl- (C7) $PO_{1-2}/2$,4-hexanediol/3-methyl- (C7) (Me-E₁₋₂); 2,4-hexanediol 3-methyl- (C7) $PO_{1/2}$, 2,4-hexanedio/, 4-methyl- (C7) (Me-E₁₋₂); 2,4-hexanediol 4-methyl- (C7) PO_{1-2} ; 2,4-hexanediol 5-methyl- (C7) (Me-E₁₋₂); 2,4-hexanediol 5-methyl- (C7) PO_{1-2} , 2,5-hexanedial (C6) (Me- E_{3-8}), 2,5-hexanediol (C6) PO₃, 2,5-hexanediol, 2methyl- (C7) (Me-E₁-2); 2,5-hexanediol 2-methyl- (C7) PO_{1-2} ; 2,5-hexanediol, 3-

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methyl- (C7) (Me-E₁₋₂); 2,5-hexanediol 3-methyl- (C7) PO₁₋₂, 3,4-hexanediol (C6) EO₁₋₅; 3,4-hexanediol (C6) n-BO₁; 3,4-hexanediol (C6) BO₁.

- 5. 1,3-heptanediol (C7) E_{1-7} ; 1,3-heptanediol (C7) PO_1 ; 1,3-heptanediol (C7) n-BO $_{1-2}$; 1,4-heptanediol (C7) E_{1-7} , 1,4-heptanediol (C7) PO_1 ; 1,4-heptanediol (C7) n-BO $_{1-2}$; 1,5-heptanediol (C7) E_{1-7} ; 1,5-heptanediol (C7) PO_1 ; 1,5-heptanediol (C7) PO_1 ; 1,5-heptanediol (C7) PO_1 ; 1,6-heptanediol (C7) PO_1 ; 2,4-heptanediol (C7) PO_1 ; 2,4-heptanediol (C7) PO_1 ; 2,4-heptanediol (C7) PO_1 ; 2,5-heptanediol (C7) PO_1 ; 2,5-heptanediol (C7) PO_1 ; 2,5-heptanediol (C7) PO_1 ; 2,6-heptanediol (C7) PO_1 ; 3,5-heptanediol (PO_1)
- 1,3-butanediol, 3-methyl-2-isopropyl- (O8) PO1; 2,4-pentanediol, 6. 2,3,3-trimethyl- (C8) PO₁; 1,3-butanediol/ $\frac{2}{2}$ -diethyl/ (C8) E₂₋₅; 2,4-hexanediol, 2,3-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, $\frac{1}{2}$,4-dimethyl- (C8) E_{2-5} ; 2,4-hexanediol, 2,5-dimethyl- (C8) E₂₋₅; 2,4-hexanediol, 3,3-dimethyl- (C8) E₂₋₅; 2,4-hexanediol, 3,4-dimethyl- (C8) E2-5; 2,4-hexanediol, 3,5/dimethyl- (C8) E2-5, 2,4-hexanediol, 4,5-dimethyl- (C8) E₂₋₅; 2,4-hexanediol, 5,5-dimethyl- (C8) E₂₋₅; 2,5-hexanediol, 2,3-dimethyl- (C8) E₂₋₅; 2,5-hexanediol,/2,4-dimethyl- (C8) E₂₋₅; 2,8-hexanediol, 2,5-dimethyl- (C8) E_{2-5} ; 2,5-hexanediol, β ,3-dimethyl- (C8) E_{2-5} , 2,5-hexanediol, 3,4-dimethyl- (C8) E₂₋₅, 3,5-heptanedjol, 3/methyl- (C8) E₂₋₅, 1,3-butanediol, 2,2diethyl- (C8) n-BO₁₋₂; 2,4-hexanediol, 2,1/dimethyl- (C8) n-BO₁₋₂, 2,4-hexanediol, 2,4-dimethyl- (C8) n-BO₁₋₂/2,4-hexanediol, 2,5-dimethyl- (C8) n-BO₁₋₂, 2,4hexanediol, 3,3-dimethyl- (C8) n-BO₁₋₂, 2,4-hexanediol, 3,4-dimethyl- (C8) n-BO₁₋ 2; 2,4-hexanediol, 3,5-dimethyl-/(C8)/n-BO₁₋₂; 2,4-hexanediol, 4,5-dimethyl- (C8) n-BO₁₋₂, 2,4-hexanediol, 5,5-dimethyl-, n-BO₁₋₂, 2,5-hexanediol, 2,3-dimethyl-(C8) n-BO₁₋₂, 2,5-hexanediol, 2,4-dimethyl- (C8) n-BO₁₋₂, 2,5-hexanediol, 2,5dimethyl- (C8) n-BO₁₋₂, $\rlap/{p}$,5-hexanediol, 3,3-dimethyl- (C8) n-BO₁₋₂, 2,5hexanediol, 3,4-dimethyl- (Cb) n-BO₁₋₂; 3,5-heptanediol, 3-methyl- (C8) n-BO₁₋₂; 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) n-BO1, 1,3-butanediol, 2-ethyl-2,3dimethyl- (C8) n-BO₁; 1/3-butanediol, 2-methyl-2-isopropyl- (C8) n-BO₁; 1,4butanediol, 3-methyl-2-is/propyl- (C8) n-BO1; 1,3-pentanediol, 2,2,3-trimethyl-(C8) n-BO₁; 1,3-pentanediol, 2,2,4-trimethyl- (C8) n-BO₁; 1,3-pentanediol, 2,4,4trimethyl- (C8) n-BO₁// 1,3-pentanediol, 3,4,4-trimethyl- (C8) n-BO₁, 1,4pentanediol, 2,2,3-trimethyl- (C8) n-BO₁; 1,4-pentanediol, 2,2,4-trimethyl- (C8) n-BO₁; 1,4-pentanediol, 2/3,3-trimethyl- (C8) n-BO₁; 1,4-pentanediol, 2,3,4-trimethyl-

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(C8) n-BO₁, 1,4-pentanediol, 3,3,4-trimethyl- (C8) n-BO₁,/2,4-pentanediol, 2,3,4trimethyl- (C8) n-BO1; 2,4-hexanediol, 4-ethyl- (C8) n-BO1; 2,4-heptanediol, 2methyl- (C8) n-BO1; 2,4-heptanediol, 3-methyl- (C8) n/BO1; 2,4-heptanediol, 4methyl- (C8) n-BO₁; 2,4-heptanediol, 5-methyl- (C8) /n-BO₁; 2,4-heptanediol, 6methyl- (C8) n-BO₁; 2,5-heptanediol, 2-methyl- (C8) n-BO₁; 2,5-heptanediol, 3methyl- (C8) n-BO₁, 2,5-heptanediol, 4-methyl- (C8) n-BO₁, 2,5-heptanediol, 5methyl- (C8) n-BO₁; 2,5-heptanediol, 6-methyl- (C8) n-BO₁; 2,6-heptanediol, 2methyl- (C8) n-BO₁; 2,6-heptanediol, 3-methyl- (C8) n-BO₁; 2,6-heptanediol, 4methyl- (C8) n-BO₁, 3,5-heptanediol, 2-methyl- (C8) n-BO₄, 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) E_{1-3} ; 1,3-butanedigl, 2-ethyl-2,\$-dimethyl- (C8) E_{1-3} ; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) / E₁₋₃; 1,4/butanediol, 3-methyl-2isopropyl- (C8) E_{1-3} ; 1,3-pentanediol, 2,2,3/trimethyl- (C8) E_{1-3} ; 1,3-pentanediol, 2,2,4-trimethyl- (C8) E_{1-3} ; 1,3-pentanediol, 2,4,4-trimethyl- (C8) E_{1-3} ; 1,3pentanediol, 3,4,4-trimethyl- (C8) E_{1-3} ; 1,4-pentanediol, 2,2,3-trimethyl- (C8) E_{1-3} ; 1,4-pentanediol, 2,2,4-trimethyl- (C8) E_{1-3} ; 1,4-pentanediol, 2,3,3-trimethyl- (C8) E_{1-3} , 1,4-pentanediol, 2,3,4-trimethyl-(C8) E_{1-3} , 1,4-pentanediol, 3,3,4-trimethyl-(C8) E₁₋₃; 2,4-pentanediol, 2,3,4-trimethyl- (C8) E₁₋₃; 2,4-hexanediol, 4-ethyl- (C8) E_{1-3} , 2,4-heptanediol, 2-methyl- (C8) E_{1-3} , 2,4-heptanediol, 3-methyl- (C8) E_{1-3} , 2,4-heptanediol, 4-methyl- (C8)/ E_1 / E_3 , 2,4/heptanediol, 5-methyl- (C8) E_{1-3} , 2,4heptanediol, 6-methyl- (C8) $/E_{1-3}/2$,5/heptanediol, 2-methyl- (C8) E_{1-3} , 2,5heptanediol, 3-methyl- (C8) E_{1-3} , 2,%-heptanediol, 4-methyl- (C8) E_{1-3} , 2,5heptanediol, 5-methyl- (C8) E_{1-3} , A, 5-heptanediol, 6-methyl- (C8) E_{1-3} , 2,6heptanediol, 2-methyl- (C8) $E_{1/3}$ //2,6-heptanediol, 3-methyl- (C8) E_{1-3} , 2,6heptanediol, 4-methyl- (C8) E₁₋₃/shd/of 3,5-heptanediol, 2-methyl- (C8) E₁₋₃ and 7. mixtures thereof

IX. aromatic diols including: 1-phenyl-1,2-ethanediol; 1-phenyl-1,2-propanediol; 2-phenyl-1,2-propanediol; 3-phenyl-1,2-propanediol; 1-(3-methylphenyl)-1,3-propanediol; 1-(4-methylphenyl)-1,3-propanediol; 2-methyl-1-phenyl-1,3-propanediol; 1-phenyl-1,3-butanediol; 3-phenyl-1,3-butanediol; 1-phenyl-1,4-butanediol; and/or 1-phenyl-2,3-butanediol; and

X. mixtures thereof.

40. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of:

1,3-Propanediol, 2,2/di-2-propenyl-; 1,3-Propanediol, 2-(1-pentenyl)-; 1,3-Propanediol, 2-(2-methyl-2-propenyl)-2-(2-propenyl)-; 1,3-Propanediol, 2-(3-methyl-

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1-butenyl)-, 1,3-Propanediol, 2-(4-pentenyl)-, 1,3-Propanediol, 2-ethyl-2-(2-methyl-2-propenyl)-; 1,3-Propanediol, 2-ethyl-2-(2-propenyl)-; 1,3-Propanediol, 2-methyl-2-(3-methyl-3-butenyl)-; 1,3-Butanediol, 2,2-diallyl-; 1,3-Butanediol, 2-(1-ethyl-1propenyl)-; 1,3-Butanediol, 2-(2-butenyl)-2-methyl-; 1,3-Butanediol, 2-(3-methyl-2butenyl)-; 1,3-Butanediol, 2-ethyl-2-(2-propenyl)-; 1,3/Butanediol, 2-methyl-2-(1methyl-2-propenyl)-; 1,4-Butanediol, 2,3-bis(1-methylethylidene)-; 1/4-Butanediol, 2-(3-methyl-2-butenyl)-3-methylene-; 2-Butene-1,4-diol, 2-(1,1-dimethylpropyl)-; 2-Butene-1,4-diol, 2-(1-methylpropyl)-; 2-Butene-1,4-diol, 2-butyl-/1,3-Pentanediol, 2-ethenyl-3-ethyl-; 1,3-Pentanediol, 2-ethenyl-4,4/dimethyl-; 1,4-Pentanediol, 3methyl-2-(2-propenyl)-; 1,5-Pentanediol, 2-(1-propenyl)-; 1,5-Pentanediol, 2-(2propenyl)-; 1,5-Pentanediol, 2-ethylidene-3-methyl-; 1,5-Pentanediol, 2-propylidene-; 2,4-Pentanediol 3-ethylidene-2,4-dimethyl-;/ 4-Pentene-1,3-diol, 2-(1.1dimethylethyl)-; 4-Pentene-1,3-diol, 2-ethyl-2,3-dimethyl-, 1,4-Hexanediol, 4-ethyl-2-methylene-; 1,5-Hexadiene-3,4-diol, 2,3,5-t/methyl-;/1,5-Hexadiene-3,4-diol, 5ethyl-3-methyl-; 1,5-Hexanediol, 2-(1-methylethenyl); 1,6-Hexanediol, 2-ethenyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 1-Hexene-3,4-diol, /5,5-dimethyl-; 2-Hexene-1,5diol, 4-ethenyl-2,5-dimethyl-; 3-Hexene-1,6-diol, 2-ethenyl-2,5-dimethyl-; 3-Hexene-1,6-diol, 2-ethyl-, 3-Hexene-1,6-diøl, B.4-dimethyl-; 4-Hexene-2,3-diol, dimethyl-, 4-Hexene-2,3-diol, 3,4-dimethyl-, 5/Hexene-1,3-diol, 3-(2-propenyl)-; 5-Hexene-2,3-diol, 2,3-dimethyl-; \$-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3diol, 3,5-dimethyl-; 5-Hexene-2,4-diol, 3/etheryl-2,5-dimethyl-,/1,4-Heptanediol, 6methyl-5-methylene-; 1,5-Heptadiene-3,4-diol, 2,3-dimethyl, 1,5-Heptadiene-3,4diol, 2,5-dimethyl-; 1,5-Heptadiene-3,4-diol, 3,5-dimethyl-; 1,7-Heptanediol, 2,6bis(methylene)-; 1,7-Heptanediol, 4-methylene-; 1-Heptene-3,5-diol, 2,4-dimethyl-; 1-Heptene-3,5-diol, 2,6-dimethyl-; /1-Heptene-3,5-diol, 3-ethenyl-5-methyl; 1-Heptene-3,5-diol, 6,6-dimethyll; 2.4/Heptadiene-2,6-diol, 4.6-dimethyl-; 2.5-Heptadiene-1,7-diol, 4,4-dimethyl-, 1/2,6-Heptadiene-1,4-diol, 2,5,5-trimethyl-; 2-Heptene-1,4-diol, 5,6-dimethyl-; 2-Heptene-1,5-diol, 5-ethyl-; 2-Heptene-1,7-diol, 2methyl-; 3-Heptene-1,5-diol, 4/6-dimethyl-; 3-Heptene-1,7-diol, methylene-; 3-Heptene-2,5-diol, 2/4-dimethyl-; 3-Heptene-2,5-diol, 2,5-dimethyl-; 3-Heptene-2,6-diol, 2,6-dimethyl-//3-Heptene-2,6-diol, 4,6-dimethyl-, 5-Heptene-1,3diol, 2,4-dimethyl-; 5-Heptene-1,3-diol, 3,6-dimethyl-; 5-Heptene-1,4-diol, 2,6dimethyl-, 5-Heptene-1,4-diol, \$6-dimethyl-, 5-Heptene-2,4-diol, 2,3-dimethyl-, 6-Heptene-1,3-diol, 2,2-dimethyl-, 6-Heptene-1,4-diol, 4-(2-propenyl)-; 6-Heptene-1,4-diol, 5,6-dimethyl-; 6-Heptene-1,5-diol, 2,4-dimethyl-; 6-Heptene-1,5-diol, 2ethylidene-6-methyl-, 6-Heptene-2,4-diol, 4-(2-propenyl)-, 6-Heptene-2,4-diol, 5,5dimethyl-; 6-Heptene-2,5-diol, 4,6-dimethyl-; 6-Heptene-2,5-diol, 5-ethenyl-4- 258 -

methyl-, 1,3-Octanediol, 2-methylene-, 1,6-Octadiene-\$,5-diol, 2,6-dimethyl-, 1,6-Octadiene-3,5-diol, 3,7-dimethyl-, 1,7-Octadiene-3,6-diol, 2,6-dimethyl-, Octadiene-3,6-diol, 2,7-dimethyl-, 1,7-Octadiene-3,6-diol, 3,6-dimethyl-, 1-Octene-3,6-diol, 3-ethenyl-; 2,4,6-Octatriene-1,8-diol, 2,7-d/methyl-; 2,4-Octadiene-1,7-diol, 3,7-dimethyl-; 2,5-Octadiene-1,7-diol, 2,6-dimethyl-; 2,5-Octadiene-1,7-diol, 3,7dimethyl-; 2,6-Octadiene-1,4-diol, 3,7-dimethyl- (Rosiridol); 2,6-Octadiene-1,8-diol, 2-methyl-, 2,7-Octadiene-1,4-diol, 3,7-dimethyl-, 2,7-Octadiene-1,5-diol, 2,6dimethyl-; 2,7-Octadiene-1,6-diol, 2,6-dimethyl/ (8-Hydroxylinalool), 2,7-Octadiene-1,6-diol, 2,7-dimethyl-, 2-Octene-1,4-diol, 2-Octene-1,7-diol, 2-Octen methyl-6-methylene-; 3,5-Octadiene-1,7-diol/ 3,7-dimethyl-; 3,5-Octadiene-2,7-diol, 2,7-dimethyl-, 3,5-Octanediol, 4-methylene, 3,7-Octadiene-1/6-diol, 2.6-dimethyl-; 3,7-Octadiene-2,5-diol, 2,7-dimethyl-; 3/7-Octadiene-2,6-d/ol, 2,6-dimethyl-, 3-Octene-1,5-diol, 4-methyl-; 3-Octene-1,5-diol, 5-methyl-; / 4,6-Octadiene-1,3-diol, 2,2-dimethyl-; 4,7-Octadiene-2,3-diol, 2,6-dimethyl-; 4,7/Octadiene-2,6-diol, 2,6dimethyl-; 4-Octene-1,6-diol, 7-methyl-; 2,7-bis(methylene)-; 2-methylene-; 5,7-Octadiene-1,4-diol, 2,7-dimethyl-; 5,7/Octa/fiene-1,4-diol, 7-methyl-; 5-Octene-1,3diol; 6-Octene-1,3-diol, 7-methyl-; 6-Octene-1,4-diol, 7-methyl-; 6-Octene-1,5-diol; 6-Octene-1,5-diol, 7-methyl-, 6,0ctene/3,5-diol, 2-methyl-; 6-Octene-3,5-diol, 4methyl-; 7-Octene-1,3-diol, 2-methyl-; /7-Octene-1,3-diol, 4-methyl-; 7-Octene-1,3diol, 7-methyl-, 7-Octene-1,5-diol/7-Octene-1,6-diol, 7-Octene-1,6-diol, 5-methyl-, 7-Octene-2,4-diol, 2-methyl-6-methylene-; 7-Octene-2,8-diol, 7-methyl-; 7-Octene-3,5-diol, 2-methyl-, 1-Nonene-3,5-diol, 1-Nonene-3,7-diol, 3-Nonene-2,5-diol, 4,6-Nonadiene-1,3-diol, 8-methyl-/ 4-Nonene-2,8-diol; 6,8-Nonadiene-1,5-diol; 7-Nonene-2,4-diol; 8-Nonene-2,4-diol; 8-Nonene-2,5-diol; 1,9-Decadiene-3,8-diol; 1,9-Decadiene-4,6-diol; and mixtures thereof.

41. The composition of any of Claims 11-15 wherein said principal solvent is selected from the group consisting of:

1,3-Butanediol, 2,2-diallyl-, 1,3-Butanediol, 2-(1-ethyl-1-propenyl)-; 1,3-Butanediol, 2-(2-butenyl)-2-methyl-; 1,3-Butanediol, 2-(3-methyl-2-butenyl)-; 1,3-Butanediol, 2-ethyl-2-(2-propenyl)-; 1,3-Butanediol, 2-methyl-2-(1-methyl-2-propenyl)-; 1,4-Butanediol, 2,3-bis(1-methylethylidene)-; 1,3-Pentanediol, 2-ethenyl-3-ethyl-; 1,3-Pentanediol, 2-ethenyl-4,4-dimethyl-; 1,4-Pentanediol, 3-methyl-2-(2-propenyl)-; 4-Pentene-1,3-diol, 2-(1,1-dimethylethyl)-; 4-Pentene-1,3-diol, 2-ethyl-2,3-dimethyl-; 1,4-Hexanediol, 4-ethyl-2-methylene-; 1,5-Hexadiene-3,4-diol, 2,3,5-trimethyl-; 1,5-Hexanediol, 2-(1-methylethenyl)-; 2-Hexene-1,5-diol, 4-ethenyl-2,5-dimethyl-; 1,4-Heptanediol, 6-methyl-5-methylene-; 2,4-Heptadiene-2,6-diol, 4,6-dimethyl-; 2,6-

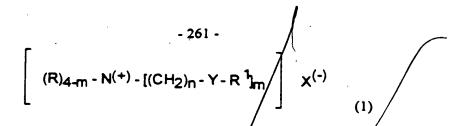
Heptadiene-1,4-diol, 2,5,5-trimethyl-, 2-Heptene-1,4-diol, 5,6-dimethyl-, 3-Heptone-1,5-diol, 4,6-dimethyl-; 5-Heptene-1,3-diol, 2,4-dimethyl-; 5-Heptene-1,3-diol/ 3,6dimethyl-; 5-Heptene-1,4-diol, 2,6-dimethyl-; 5-Heptene-1,4-diol, 3,6-dimethyl-; 6-Heptene-1,3-diol, 2,2-dimethyl-, 6-Heptene-1,4-diol/ 5,6-dimethyl-, 6-Heptene-1,5diol, 2,4-dimethyl-; 6-Heptene-1,5-diol, 2-ethylidene-6-methyl-; 6-Heptene-2,4-diol, 4-(2-propenyl)-; 1-Octene-3,6-diol, 3-ethenyl-/ 2,4,6-Octatriene-1/8-diol, dimethyl-; 2,5-Octadiene-1,7-diol, 2,6-dimethyl-; 2,5-Octadiene/1,7-diol, dimethyl-; 2,6-Octadiene-1,4-diol, 3,7-dimethyl- (Rosindol); 2,6-Octadiene-1,8-diol, 2-methyl-, 2,7-Octadiene-1,4-diol, 3,7-dimethyl-, 2,7-Octadiene-1,5-diol, 2,6dimethyl-; 2,7-Octadiene-1,6-diol, 2,6-dimethyl- (8-Hydroxylinal ol); 2,7-Octadiene-1,6-diol, 2,7-dimethyl-; 2-Octene-1,7-diol/ 2-methyl-6-methylene-; 3,5-Octadiene-2,7-diol, 2,7-dimethyl-, 3,5-Octanediol, A-methylene-, 3,7-Octadiene-1,6-diol, 2,6dimethyl-; 4-Octene-1,8-diol, 2-methylene-; 6-Octene-3,5-diol, 2-methyl-; 6-Octene-3,5-diol, 4-methyl-; 7-Octene-2,4-diol, 2-methyl-6-methylene-; 7-Octene-2,5-diol, 7methyl-; 7-Octene-3,5-diol, 2-methyl/; 1-Nonene-3,5-diol; 1-Nonene-3,7-diol; 3-Nonene-2,5-diol; 4-Nonene-2,8-diol; /6,8-Nonadiene-1/5-diol; 7-Nonene-2,4-diol; 8-Nonene-2,4-diol; 8-Nonene-2,5-dight 1,9-Decadiene-3,8-diol; 1,9-Decadiene-4,6diol; and mixtures thereof.

- 42. The composition of any of Claims 11-15 wherein the softener active comprises up to about 20% of monoester compound in which m is 2 and one YR¹ is -OH, -N(R)H, or -C(O)OM.
- The composition of any of Claims 11-15 wherein at low water levels of from about 5% to about 15% the softener active-to-principal solvent weight ratio is from about 55:45 to about 85:15 at water levels of from about 15% to about 70%, the softener active-to-principal solvent weight ratio is from about 45:55 to about 70:30, and at high water levels of from about 70% to about 80%, the softener active-to-principal solvent weight ratio is from about 30:70 to about 55:45.
- The composition of Claim 43 wherein at low water levels of from about 5% to about 15%, the softener active-to-principal solvent weight ratio is from about 60:40 to about 80:20; at water levels of from about 15% to about 70%, the softener active-to-principal solvent weight ratio is from about 55:45 to about 70:30; and at high water levels of from about 70% to about 80%, the softener active-to-principal solvent weight ratio is from about 35:65 to about 45:55.

- 45. The composition of Claim 11 which is translucent or clear at 25°C, containing solvents other than principal solvent B., the amount of principal solvent B. being at least about 5% by weight of the composition, where the composition is not translucent or clear at 25°C in the absence of principal solvent B.
- 46. The composition of any of Claims 11-15 which contains one, or more, of the following optional ingredients:
- (a) brightener at a level of from about 0.005% to about 5%
- (b) dispersibility aid at a level of from about 2% to about 25%;
- (c) soil release agent at a level of from 0% to about 10%;
- (d) scum dispersant at a level of from about 2% to about 10%,
- (e) stabilizer selected from the group consisting of antioxidant, reducing agent, chelator, and mixtures thereof, at a level of from 0% to about 2%;
- (f) bactericide at a level of from about 0/005% to about 5%; and
- (g) chelating agent in addition to any chelator in (e), at a level of from about 0.5% to about 10%.
- A premix of the components of any of Claims 11-15 consisting essentially of: said biodegradable fabric softener active A. said principal solvent B., and optionally, said water soluble solvent C.
- 48. An article of manufacture comprising the composition of Claim 11 in a clear bottle.
- The article of Claim 48 wherein the bottle has a slight blue tint, sufficient to compensate for any light yellow color of the composition.
- 50. The article of Claim 49 wherein the bottle has an ultraviolet light absorber incorporated in the bottle wall to protect the composition.
- 51. Composition comprising:

A. from about 2% to about 80% of biodegradable fabric softener active selected from the group consisting of:

1. softener having the formula:



wherein each R substituent is H, or a short chain C_1 - C_6 alkyl or hydroxyalkyl group, benzyl, or mixtures thereof; each m is 2 or 3; each n is from 1 to about 4; each Y is -O-(O)C-, -(R)N-(O)C-, -C(O)-N(R)-, or -C(O)-O-, the sum of carbons in each R¹ or YR¹ plus one when Y is -O-(O)C- or -(R)N-(O)C-, being C_6 - C_{22} , but when one R¹ or YR¹ sum is less than about 12, then the other R¹ or YR¹ sum is at least about 16, with each R¹ being a long chain hydrocarbyl, or substituted hydrocarbyl substituent, and for R¹ or YR¹ comprising a C_{15} - C_{21} straight chain alkyl or alkylene group, the Iodine Value of a fatty acid which contains this R¹ group being from about 20 to about 140, and wherein the counterion, K-, can be any softener-compatible anion;

2. softener having the formula:



wherein each Y, R, R¹, and X⁽⁻⁾ have the same meanings as before; and

3. mixtures thereof;

- B. less than about 40% by weight of the composition of principal alcohol solvent selected from the group consisting of:
- I. mono-ols including:

a. n-propanol; and/or

b. 2-butanol and/or 2/methyl-2-propanol;

- II. hexane diol isomers/including: 2,3-butanediol, 2,3-dimethyl-; 1,2-butanediol, 2,3-dimethyl-; 1,2-butanediol, 3,3-dimethyl-; 2,3-pentanediol, 2-methyl-; 2,3-pentanediol, 3-methyl-; 2/3-pentanediol, 4-methyl-; 2,3-hexanediol; 3,4-hexanediol; 1,2-butanediol, 2-ethyl-; 1,2-pentanediol, 2-methyl-; 1,2-pentanediol, 4-methyl-; and/or 1,2-hexanediol;
- III. heptane diol isomers including: 1,3-propanediol, 2-butyl-; 1,3-propanediol, 2,2-diethyl-; 1,3-propanediol, 2-(1-methylpropyl)-; 1,3-propanediol, 2-(2-methylpropyl)-; 1,3-propanediol, 2-methyl-2-propyl-; 1,2-butanediol, 2,3,3-trimethyl-; 1,4-butanediol, 2-ethyl-2-methyl-; 1,4-butanediol, 2-ethyl-3-methyl-; 1,4-butanediol, 2-propyl-; 1,4-butanediol, 2-isopropyl-; 1,5-pentanediol, 2,2-dimethyl-; 1,5-

pentanediol, 2,3-dimethyl-, 1,5-pentanediol, 2,4-dimethyl-/ 1,5-pentanediol, 3,3dimethyl-; 2,3-pentanediol, 2,3-dimethyl-; 2,3-pentanediol, 2,4-dimethyl-; pentanediol, 3,4-dimethyl-; 2,3-pentanediol, 4,4-dimethyl-; 3,4-pentanediol, 2,3dimethyl-; 1,5-pentanediol, 2-ethyl-; 1,6-hexanediol, 2-methyl-; 1,6-hexanediol, 3methyl-, 2,3-hexanediol, 2-methyl-, 2,3-hexanediol, 3/methyl-, 2,3-hexanediol, 4methyl-; 2,3-hexanediol, 5-methyl-; 3,4-hexanediol, 2-methyl-; 3,4-hexanediol, 3methyl-; 1,3-heptanediol; 1,4-heptanediol; 1,5-heptanediol; and/or 1,6-heptanediol; octane diol isomers including: 1,3-propanediol, /2-(2-methylbutyl)-; 1,3propanediol, 2-(1,1-dimethylpropyl)- 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3propanediol. 2-(1-ethylpropyl)-; 1,3-propanediol, 2-(1-methylbutyl)-; propanediol, 2-(2,2-dimethylpropyl)-; 1,3-propanediol, 2-(3-methylbutyl)-; 1.3propanediol, 2-butyl-2-methyl-; 1,3-propanedio(2-ethyl-2-isopropyl-; propanediol, 2-ethyl-2-propyl-; 1,3-propanediol, 2-methyl-2-(1-methylpropyl)-; 1,3-2-methyl-2-(2-methylpropyl)-, / /,3-propanediol, 2-tertiary-butyl-2methyl-; 1,3-butanediol, 2,2-diethyl-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3butanediol, 2-butyl-; 1,3-butanediol, 2-ethyl-2,3 dimethyl-; 1,3-butanediol, 2-(1,1dimethylethyl)-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-methyl-2isopropyl-; 1,3-butanediol, 2-methyl-2-propyl-/1,3-butanediol, 3-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2-propyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2methyl-2-propyl-, 1,4-butanediol, 2/(1-methylpropyl)-, 1,4-butanediol, 2-ethyl-2,3dimethyl-; 2/ethyl/3/3/dimethyl-; 1.4-butanediol, 1,4-butanedigf, dimethylethyl)-; 1,4-butanediol/2-(2-methylpropyl)-; 1,4-butanediol, 2-methyl-3propyl-; 1,4-butanediol, 3-methyl-2-sopropyl-; 1,3-pentanediol, 2,2,3-trimethyl-; 1,3-pentanediol, 2,2,4-trimethyl-; 1,3-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2,4,4-trimethyl-; 1,3-pentanediol, 3,4,4-trimethyl-; 1,4-pentanediol, 2,2,3-trimethyl-; 1,4-pentanediol, 2,2,4-trimethyl-; 1,4-pentanediol, 2,2,3-trimethyl-; 1,4-pentanediol, 2,3,4-trimethyl-; 1,4-pentanediol, \$,3,4-trimethyl-; 1,5-pentanediol, 2,2,3-trimethyl-; 1,5-pentanediol, 2,2,4-trimethyl-;/1,5-pentanediol, 2,3,3-trimethyl-; 1,5-pentanediol, 2,3,4-trimethyl-; 2,4-pentanediol, 2,3,3-trimethyl-; 2,4-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol 2-ethyl-2-methyl-; 1,3-pentanediol, 2-ethyl-3-methyl-; 1.3pentanediol, 2-ethyl-4-methyl-, 1,3-pentanediol, 3-ethyl-2-methyl-, 1,4-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-3-methyl-; 1,4-pentanediol, 2-ethyl-4methyl-;/1,4-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 3-ethyl-3-methyl-; 1,5pentanediol, 2-ethyl-2-methyl-, 1,5-pentanediol, 2-ethyl-3-methyl-, 1,5-pentanediol, 2-ethyl-4-methyl-; 1,5-pentanediol, 3-ethyl-3-methyl-; 2,4-pentanediol, 3-ethyl-2methyl-; 1,3-pentanediol,/2-isopropyl-; 1,3-pentanediol, 2-propyl-; 1,4-pentanediol, 2-isopropyl-; 1,4-pentanediol, 2-propyl-, 1,4-pentanediol, 3-isopropyl-, 1,5-

pentanediol, 2-isopropyl-; 2,4-pentanediol, 3-propyl-; 1,3-hexanediol, 2,2-aimethyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,4-dimethyl-; 1,3-hexanediol, 2,5dimethyl-: 1,3-hexanediol, 3,4-dimethyl-; 1,3-hexanediol, 3,5-dimethyl-; 1.3hexanediol. 1,4-hexanediol, 4,5-dimethyl-; 2,2-dimethyl-; 1.4-hexanediol, 2,3dimethyl-; 1,4-hexanediol, 2,4-dimethyl-; 1,4-hexanediol. 2,5-dimethyl-; 1,4hexanediol, 3,3-dimethyl-; 1,4-hexanediol. 3,4-dimethyl-: 1/4-hexanediol, 3,5dimethyl-; 1.3-hexanediol, 4,4-dimethyl-; 1,4-hexanediol 4,5-dimethyl-; 1,4hexanediol. 5,5-dimethyl-; 1,5-hexanediol, 2,2-dimethyl-: 1,5-hexanediol, 2,3dimethyl-; 2,4-dimethyl-; 1,5-hexanediol, 1.5-hexanediol 2,5-dimethyl-; 1,5hexanediol, 3,3-dimethyl-; 1,5-hexanediol, 3,4/dimethyl-: 1,5-hexanediol. 3.5dimethyl-; 1,5-hexanediol. 4,5-dimethyl-; 1,6/hexanédiol. 2,2-dimethyl-; 1.6hexanediol. 2,3-dimethyl-: 1,6-hexanediol. 2,4-dimethyl-; 1,6-hexanediol, 2.5dimethyl-: 1,6-hexanediol 3,3-dimethyl-: 1/6-hexanediol. 3,4-dimethyl-; 2,4hexanediol, 2.3-dimethyl-; 2,4-hexanediol 2,4-dimethyl-; 2,4-hexanediol, 2,5dimethyl-; 2,4-hexanediol 3,3-dimethyl-; 2,4/hexanediol. 3,4-dimethyl-; 2,4hexanediol, 3,5-dimethyl-; 2,4-hexanediol 4/5-dimethyl-; 2,4-hexanediol, 5.5dimethyl-; 2,5-hexanediol, 2,3-dimethyl-; .5-hexanedioL 2,4-dimethyl-; hexanediol, 2,5-dimethyl-; 2,5-hexanediol,/3,3-dimethyl-; 2,5-hexanediol. dimethyl-, 2,6-hexanediol, 3,3-dimethyl-, 1,6-hexanediol, 2-ethyl-, 1,3-hexanediol, 4ethyl-; 1,4-hexanediol, 2-ethyl-; 1,4-hexanediol, 4-ethyl-; 1,5-hexanediol, 2-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,4-hexanediol/ 4-thyl-; 2,5-hexanediol, 3-ethyl-; 1,3heptanediol, 2-methyl-; 1,3-heptanediol, \(\beta\)-methyl-; 1,3-heptanediol, 4-methyl-; 1,3heptanediol, 5-methyl-; 1,3-heptanediol, 6/methyl-; 1,4-heptanediol, 2-methyl-; 1,4heptanediol, 3-methyl-, 1,4-heptanediol, 4-methyl-, 1,4-heptanediol, 5-methyl-, 1,4heptanediol, 6-methyl-; 1,5-heptanediol, 2-methyl; 1,5-heptanediol, 3-methyl-; 1,5heptanediol, 4-methyl-; 1,5-heptanediol, 5-methyl-; 1,5-heptanediol, 6-methyl-; 1,6heptanediol; 2-methyl-; 1,6-heptanediol, 3-methyl-; 1,6-heptanediol, 4-methyl-; 1,6heptanediol, 5-methyl-; 1,6-heptanediol, 6-methyl-; 2,4-heptanediol, 2-methyl-; 2,4heptanediol, 3-methyl-, 2,4-heptanediol, 4-methyl-, 2,4-heptanediol, 5-methyl-, 2,4heptanediol, 6-methyl-, 2,5-heptanediol, 2-methyl-, 2,5-heptanediol, 3-methyl-, 2,5heptanediol, 4-methyl-; 2,5-heptanediol, 5-methyl-; 2,5-heptanediol, 6-methyl-; 2,6heptanediol, 2-methyl-, 2,6-heptanediol, 3-methyl-, 2,6-heptanediol, 4-methyl-, 3,4heptanediol, 3-methyl-; 3,5-heptanediol, 2-methyl-; 3,5-heptanediol, 3-methyl-; 3,5-4-methyl-; / 2,4-octanediol; 2,5-octanediol; heptanediol, 2.6-octanediol: octanediol; 3,5-octanediol; and/pr 3,6-octanediol;

V. nonane diol isomers including: 2,4-pentanediol, 2,3,3,4-tetramethyl-, 2,4-pentanediol, 3-tertiarybutyl-, 2,4-hexanediol, 2,5,5-trimethyl-, 2,4-hexanediol, 3,3,4-

2,5-dimethyl-1,3-

trimethyl-; 2,4-hexanediol, 3,3,5-trimethyl-; 2,4-hexanediol/3,5,5-trimethyl-; hexanediol, 4,5,5-trimethyl-; 2,5-hexanediol, 3,3,4-trimethyl-, and/or 2,5-hexanediol, 3,3,5-trimethyl-;

glyceryl ethers and/or di(hydroxyalkyl)ethers including: 1,2-propanediol, 3-VI. (n-pentyloxy)-; 1,2-propanediol, 3-(2-pentyloxy)-; 1,2-propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3-(2-methyl-1-butyloxy)-; 1,2-propanediol, 3-(iso-amyloxy)-; 1,2propanediol, 3-(3-methyl-2-butyloxy)-, 1,2-propanediol, 3-(cyclohexyloxy)-, 1,2propanediol, 3-(1-cyclohex-1-enyloxy)-; 1,3-propanediol, 2-(pentyloxy)-; propanediol, 2-(2-pentyloxy)-, 1,3-propanediol, 2-(3/pentyloxy)-/, 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol, 2-(iso-arhyloxy)-; 1/3-propanediol, 2-(3methyl-2-butyloxy)-; 1,3-propanediol, 2-(cyclohexyloxy)-; /1,3-propanediol, 2-(1cyclohex-1-enyloxy)-; 1,2-propanediol, 3-(butyloxy)-, triethoxylated; propanediol, 3-(butyloxy)-, tetraethoxylated/ 1,2-propanediol, 3-(butyloxy)-. pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated; 1,2-propanediol, 3-(butyloxy)-, octaethoxylated; 1,2-propanediol, 3-(butyloxy)-, nonaethoxy/ated, /,2-propanediol, 3-(butyloxy)-, monopropoxylated; 1,2-propanediol 3-(butyloxy)-, dibutyleneoxylated; propanediol, 3-(butyloxy)-, tributyleneoxylated; 1/2-propanediol, 3-phenyloxy-, 1,2propanediol, 3-benzyloxy-; 1,2-propanediol, 3-(2-phenylethyloxy)-; 1,2-propanediol, 3-(1-phenyl-2-propanyloxy)-; 1,3-propanediol/2-phenyloxy-; 1,3-propanediol, 2-(mcresyloxy)-; 1,3-propanediol, 2-(p-cresyloxy)-; 1,3-propanediol, -benzyloxy-; 1,3propanediol, 2-(2-phenylethyloxy)-; 1,3-propanediol, 2-(1-phenylethyloxy)-; bis(2hydroxybutyl)ether; and/or bis(2-hydroxycy/clopentyl)ether

saturated and unsaturated alicyclic/diols and their derivatives including: VII.

(a) the saturated diols and their derivatives, including: 1-isopropyl-1,2-cyclobutanediol 3-ethyl-4-methyl-1,2-cyclobutanediol; 3-propyl-1,2cyclobutanediol; 3-isopropyl-1,2-cyclobutanediol; 1-ethyl-1,2-cyclopentanediol; 1,2dimethyl-1,2-cyclopentanediol; 1,4-dimethyl-1,2-cyclopentanediol; 2,4,5-trimethyl-1,3-cyclopentanediol; 3,3-dimethyl-1,2-cyclopentanediol; 3,4-dimethyl-1,2cyclopentanediol; 3,5-dimethyl-1,2/cyclopentanediol; 3-ethyl-1,2-cyclopentanediol; 4,4-dimethyl-1,2-cyclopentanediol; 4-ethyl-1,2-cyclopentanediol; 1.1bis(hydroxymethyl)cyclohexane; 1,2-bis(hydroxymethyl)cyclohexane; 1,2-dimethyl-1,3-cyclohexanediol; 1,3-bis(hydroxymethyl)cyclohexane; 1,3-dimethyl-1,3cyclohexanediol; 1,6-dimethyl-1/3-cyclohexanediol; 1-hydroxy-cyclohexaneethanol; 1-hydroxy-cyclohexanemethanol/ 1-ethyl-1,3-cyclohexanediol; 1-methyl-1.2cyclohexanediol; 2,2-dirhethyl-1,3-cyclohexanediol; 2,3-dimethyl-1,4cyclohexanediol; 2,4-dimethyl-1,3-cyclohexanediol;

cyclohexanediol; 2,6-dimethyl-1,4-cyclohexanediol; 2-ethyl-1,3-cyclohexanediol; 2hydroxycyclohexaneethanol; 2-hydroxyethyl-1-cyclobexanol; 3-hydroxyethyl-1cyclohexanol; 3-hydroxycyclohexaneethanol; 3-hydroxymethylcyclohexagol; methyl-1,2-cyclohexanediol; 4,4-dimethyl-1,3-cycle hexanediol; 4,5-dimethyl-1,3cyclohexanediol; 4,6-dimethyl-1,3-cyclohexanediol/ 4-ethyl-1,3-cyclohexanediol; 4hydroxyethyl-1-cyclohexanol; 4-methyl-1,2-cyclohexanediol; 5,5/dimethyl-1,3cyclohexanediol; 5-ethyl-1,3-cyclohexanediol; 1,2-cycloheptanediol/ 2-methyl-1,3cycloheptanediol; 2-methyl-1,4-cycloheptanediol; 4-methyl-1,3-cycloheptanediol; 5methyl-1,3-cycloheptanediol; 5-methyl-1, A-cycloheptanediol; 6-methyl-1.4cycloheptanediol; j. 1,3-cyclooctanediol; 1,4-cyclooctanediol; /1,5-cyclooctanediol; 1,2-cyclohexanediol. diethoxylate; 1,2/cyclohexanediol, triethoxylate; 1,2cyclohexanediol, tetraethoxylate; 1,2-dyclohexanediol, pentaethoxylate; 1,2cyclohexanediol, hexaethoxylate; 1,2/cyclohexanediol,/ heptaethoxylate: 1,2cyclohexanediol. octaethoxylate; 1.2-cyclohexanediol, nonaethoxylate; 1,2cyclohexanediol, monopropoxylate; 1,2-cyclohexanediol, monobutylenoxylate; 1,2cyclohexanediol, dibutylenoxylate; and or 1,2-cyclohexanediol, tributylenoxylate; and (b). the unsaturated alicyclic diols including: 1,2-cyclobutanediol, 1-ethenyl-2-ethyl-; 3-cyclobutene-1,2-diol, 1,2,3,4-terramethyl-; 3-cyclobutene-1,2-diol, 3,4-diethyl-; 3cyclobutene-1,2-diol, 3-(1,1-dimethylethyl)-// 3-cyclobutene-1,2-diol, 3-butyl-, 1,2-1,2-dimethyl-4-methylene-/ 1,2-cyclopentanediol, cyclopentanediol, methylene-; 1,2-cyclopentanediol, 4/(1-propenyl); 3-cyclopentene-1,2-diol, 1-ethyl-3methyl-; 1,2-cyclohexanediol, /1-ethenyl-, 1,2-cyclohexanediol, Y-methyl-3methylene-; 1,2-cyclohexanediol,/1-methylene-; 1,2-cyclohexanediol, 3ethenyl-; 1,2-cyclohexanediol, 4-cyclohexene-1,2-diol, 2,6-dimethyl-, 3cyclohexene-1,2-diol, 6,6-dimethyl-, 4-cyclohexene-1,2-diol, 3,6-dimethyl-, 4cyclohexene-1,2-diol, 4,5-dimethyl-, 3-cyclooctene-1,2-diol, 4-cyclooctene-1,2-diol, and/or 5-cyclooctene-1,2-diol; VIII. Alkoxylated derivatives of C₃₋₈ diols including:

1. 1,2-propanediol (C3) 2(Me- E_{1-4}); 1,2-propanediol (C3) PO₄; 1,2-propanediol, 2-methyl- (C4) (Me- E_{4-10}); 1,2-propanediol, 2-methyl- (C4) 2(Me- E_{1}); 1,2-propanediol, 2-methyl- (C4) PO₃; 1,2-propanediol, 2-methyl- (C4) BO₁; 1,3-propanediol (C3) 2(Me- E_{6-8}); 1,3-propanediol (C3) PO₅₋₆; 1,3-propanediol, 2,2-diethyl- (C7) E₁₋₇; 1,3-propanediol, 2,2-diethyl- (C7) PO₁; 1,3-propanediol, 2,2-diethyl- (C5) 2(Me E_{1-2}); 1,3-propanediol, 2,2-dimethyl- (C5) 2(Me E_{1-2}); 1,3-propanediol, 2,2-dimethyl- (C5) PO₃₋₄; 1,3-propanediol, 2-(1-methylpropyl)- (C7)

 E_{1-7} ; 1,3-propanediol, 2-(1-methylpropyl)- (C7) PO₁; 1,3-propanediol, 2-(1-methylpropyl)- (C7) n-BO₁₋₂; 1,3-propanediol, 2-(2-methylpropyl)- (C7) E_{1-7} ; 1,3-

propanediol, 2-(2-methylpropyl)- (C7) PO₁; 1,3-propanediol 2-(2-methylpropyl)- (C7) n-BO₁₋₂; 1,3-propanediol, 2-ethyl- (C5) (Me E₆₋₁₀); 1/3-propanediol, 2-ethyl- (C5) 2(Me E₁); 1,3-propanediol, 2-ethyl- (C5) PO₃; 1,3-propanediol, 2-ethyl-2-methyl- (C6) (Me E₁₋₆); 1,3-propanediol, 2-ethyl-2-methyl- (C6) PO₂; 1,3-propanediol, 2-ethyl-2-methyl- (C6) Me E₁₋₆); 1,3-propanediol, 2-isopropyl- (C6) PO₂; 1,3-propanediol, 2-isopropyl- (C6) BO₁; 1,3-propanediol, 2-methyl- (C4) 2(Me E₂₋₅); 1/3-propanediol 2-methyl- (C4) PO₄₋₅; 1,3-propanediol, 2-methyl- (C4) BO₂; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) E₂₋₉; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) PO₁; 1,3-propanediol, 2-methyl-2-isopropyl- (C7) E₁₋₇; 1,3-propanediol, 2-methyl-2-propyl- (C7) PO₁; 1,3-propanediol, 2-methyl-2-propyl- (C7) n-BO₁₋₂; 1,3-propanediol, 2-propyl- (C6) (Me E₁₋₄); 1,3-propanediol, 2-propyl- (C7) n-BO₁₋₂; 1,3-propanediol, 2-propyl- (C6) BO₁;

1,2-butanediol (C4) (Me E₂-8); 1,2-butanediol (C4) PO₂₋₃; 1,2-2. butanediol (C4) BO1; 1,2-butanediol, 2,3-dimethyl- (C6) E1-6; 1,2-butanediol, 2,3dimethyl- (C6) n-BO₁₋₂; 1,2-butanediol, 2/ethyl- (C6) £₁₋₃; 1,2-butanediol, 2-ethyl-(C6) n-BO₁; 1,2-butanediol, 2-methyl (C5) (Me E₁₋₂); 1,2-butanediol, 2-methyl-(C5) PO₁, 1,2-butanediol, 3,3-dimethyl- (C6)/E₁-6; 1,2-butanediol, 3,3-dimethyl-(C6) n-BO₁₋₂; 1,2-butanediol, 3-methyl- (\$\frac{1}{2}\$5)/(Me E₁₋₂); 1,2-butanediol, 3-methyl-(C5) PO₁, 1,3-butanediol (C4) 2 (Me E₃-k); 1/3-butanediol (C4) PO₅; 1,3-butanediol (C4) BO₂; 1,3-butanediol, 2,2,3-trimethyl-(C7) (Me E_{1-3}); 1,3-butanediol, 2,2,3trimethyl- (C7) PO_{1-2} ; 1,3-butanedio//2,2-dimethyl- (C6) (Me E_{3-8}); 1,3butanediol, 2,2-dimethyl- (C6) PO3:///3-butanediol, 2,3-dimethyl- (C6) (Me E3-8); 1,3-butanediol, 2,3-dimethyl- (C6) MO_3 ; 1,3-butanediol, 2-ethyl- (C6) (Me E₁₋₆); 1,3-butanediol, 2-ethyl- (C6) P/2-3; 1,3-butanediol/ 2-ethyl- (C6) BO₁; 1,3butanediol, 2-ethyl-2-methyl- (C7) (Me E1); 1,3-butanediol, 2-ethyl-2-methyl- (C7) PO₁; 1,3-butanediol, 2-ethyl-2-methyl- (C7) n-BO₂₋₄; 1,3-butanediol, 2-ethyl-3methyl- (C7) (Me E₁);/1,3-butanediol, 2-ethyl-3-methyl- (C7) PO₁; 1,3-butanediol, 2-ethyl-3-methyl- ($\cancel{C7}$) n-BO $\cancel{2}$ 4; 1, $\cancel{3}$ -butanediol, 2-isopropyl- (C7) (Me E₁); 1,3butanediol, 2-isopropyl- (C7)/PO₁, 1,3-butanediol, 2-isopropyl- (C7) n-BO₂₋₄, 1,3butanediol, 2-methyl- (C5) \$\frac{1}{2}\$ (Me E₁₋₃); 1,3-butanediol, 2-methyl- (C5) PO₄; 1,3butanediol, 2-propyl- (C7) $\not\equiv_{2-9}$; 1,3-butanediol, 2-propyl- (C7) PO₁; 1,3-butanediol, 2-propyl- (C7) n-BO₁₋₃; 1/3-butanediol, 3-methyl- (C5) 2(Me E₁₋₃); 1,3-butanediol, 3-methyl- (C5) PO₄; 1,4/butanediol (C4) 2(Me E₂₋₄); 1,4-butanediol (C4) PO₄₋₅; 1,4-butanediol (C4) BO₂, 1,4-butanediol, 2,2,3-trimethyl- (C7) E₂₋₉; 1,4-butanediol, 2,2,3-trimethyl- (C7) $P(0_1; 1,4$ -butanediol, 2,2,3-trimethyl- (C7) n-BO $_{1-3}; 1,4$ butanediol, 2,2-dimethyl- (C6) (Me E₁₋₆), 1,4-butanediol, 2,2-dimethyl- (C6) PO₂,

1,4-butanediol, 2,2-dimethyl- (C6) BO1, 1,4-butanediol, 2,3-dimethyl- (C6) (Me E) 6); 1,4-butanediol, 2,3-dimethyl- (C6) PO2; 1,4-butanediol, 2,3-dimethyl- (C6) BO1; 1,4-butanediol, 2-ethyl- (C6) (Me E₁₋₄); 1,4-butanediol, 2-ethyl- (C6) PO₂, 1,4butanediol, 2-ethyl- (C6) BO1, 1,4-butanediol, 2-ethyl-2-methyl- (C7) E1/-7, 1,4butanediol, 2-ethyl-2-methyl- (C7) PO1; 1,4-butanediol, 2-ethyl-2-methyl- (C7) n-BO₁₋₂; 1,4-butanediol, 2-ethyl-3-methyl- (C7) $\not\equiv_{1-7}$; 1,4-butanediol, 2-ethyl-3methyl- (C7) PO₁; 1,4-butanediol, 2-ethyl-3-methyl- (C7) n-BO₁₋₂; 1,4-butanediol, 2-isopropyl- (C7) E₁₋₇; 1,4-butanediol, 2-isopropyl- (C7) PO₁; 1,4-butanediol, 2isopropyl- (C7) n-BO₁₋₂, 1,4-butanediol, 2/methyl- (C5) (Me E_{6-10}), 1,4butanediol, 2-methyl- (C5) 2(Me E1); 1,4-bytanediol, 2-methyl- (C5) PO3, 1,4butanediol, 2-methyl- (C5) BO₁, 1,4-butanediol, 2-propyl- (C7) E₁₋₅, 1,4butanediol, 2-propyl- (C7) n-BO₁₋₂; 1,4-bytanediol, 3-ethyl-1-methyl- (C7) E₂₋₉; 1,4-butanediol, 3-ethyl-1-methyl- (C7) PO/; 1,4-butanediol, 3-ethyl-1-methyl- (C7) n-BO₁₋₃; 2,3-butanediol (C4) (Me $E_{6-1/9}$); 2,3-butanediol (C4) 2(Me E_{1}); 2,3butanediol (C4) PO₃₋₄; 2,3-butanediol (C4) BO₁; 2,3-butanediol, 2,3-dimethyl- (C6) E₃₋₉; 2,3-butanediol, 2,3-dimethyl- (C6) PO₁/2,3-butanediol, 2,3-dimethyl- (C6) n-BO₁₋₃; 2,3-butanediol, 2-methyl- (C5) (Me/ E_{1-5}), 2,3-butanediol, 2-methyl- (C5) PO₂, 2,3-butanediol, 2-methyl- (C5) BO₁/

1,2-pentanediol (C5) $\frac{1}{2}\frac{1}{10}$; /1,2-pentanediol, (C5) PO₁; 1,2pentanediol, (C5) n-BO₂₋₃, 1,2-pentanediol, 2-methyl (C6) E₁₋₃; 1,2-pentanediol, 2methyl (C6) n-BO1; 1,2-pentanediol/2-methyl (C6) BO1; 1,2-pentanediol, 3-methyl (C6) E₁₋₃, 1,2-pentaned ol, 3-methyl (C6) n-BO₁; 1,2-pentaned ol, 4-methyl (C6) E₁₋₃; 1,2-pentanediol, 4-methyl (C/b) η-BO₁; 1,3-pentanediol (C5) 2(Me-E₁₋₂); 1,3pentanediol (C5) PO₃₋₄; 1,3-Hentanediol, 2,2-dimethyl- (C7) (Me-E₁); 1,3pentanediol, 2,2-dimethyl- (C7)/HO1/1,3-pentanediol, 2,2-dimethyl- (C7) n-BO2-4. 1,3-pentanediol, 2,3-dimethyl- (C7) (Me-E₁); 1,3-pentanediol, 2,3-dimethyl- (C7) PO₁; 1,3-pentanediol, 2,3-dimethyl- (C7) n-BO₂₋₄; 1,3-pentanediol, 2,4-dimethyl-(C7) (Me- E_1); 1,3-pentanediol/2,4-dimethyl- (C7) PO₁; 1,3-pentanediol, 2,4dimethyl- (C7) n-BO₂₋₄, 1,3/pentanediol, 2-ethyl- (C7) E₂₋₉; 1,3-pentanediol, 2ethyl- (C7) PO₁, 1,3-pentanefiol, 2-ethyl- (C7) n-BO₁₋₃, 1,3-pentanediol, 2-methyl-(C6) 2(Me-E₁₋₆), 1,3-pen/anediol, 2-methyl- (C6) PO₂₋₃; 1,3-pentanediol, 2methyl- (C6) BO₁; 1,3-pentanediol, 3,4-dimethyl- (C7) (Me-E₁); 1,3-pentanediol, 3,4-dimethyl- (C7) PO $\frac{1}{1}$ 1,3-pentanediol, 3,4-dimethyl- (C7) n-BO₂₋₄, 1,3pentanediol, 3-methyl- (C6) (Me-E₁₋₆); 1,3-pentanediol, 3-methyl- (C6) PO₂₋₃; 1,3pentanediol, 3-methyl- (76) BO1; 1,3-pentanediol, 4,4-dimethyl- (C7) (Me-E1); 1,3pentanediol, 4,4-dimethyl- (C7) PO1; 1,3-pentanediol, 4,4-dimethyl- (C7) n-BO2-4, 1,3-pentanediol, 4-methyl- (C6) (Me-E₁₋₆); 1,3-pentanediol, 4-methyl- (C6) PO₂₋₃;

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1,3-pentanediol, 4-methyl- (C6) BO₁; 1,4-pentanediol, (C5) 2(Me-E₁₋₂)/ 1,4pentanediol (C5) PO₃₋₄; 1,4-pentanediol, 2,2-dimethyl- (C7) (Me-E₁); 1,4pentanediol, 2,2-dimethyl- (C7) PO1; 1,4-pentanediol, 2,2-dimethyl- (C7) n-BO2-4; 1,4-pentanediol, 2,3-dimethyl- (C7) (Me-E₁); 1,4/pentanediol, 2,3-dimethyl- (C7) PO₁; 1,4-pentanediol, 2,3-dimethyl- (C7) n-BO₂/4; 1,4-pentanediol/2,4-dimethyl-(C7) (Me-E₁); 1,4-pentanediol, 2,4-dimethyl-/(C7) PO₁; 1,4-pentanediol, 2,4dimethyl- (C7) n-BO₂₋₄; 1,4-pentanediol, /2-methyl- (C6)/(Me- E_{1-6}); 1,4pentanediol, 2-methyl- (C6) PO₂₋₃, 1,4-pentanediol, 2-methyl- (C6) BO₁, 1,4pentanediol, 3,3-dimethyl- (C7) (Me-E₁); 1,4-pentanediol, 3,3-dimethyl- (C7) PO₁; 1,4-pentanediol, 3,3-dimethyl- (C7) n-BO₂/4; 1,4-pentanediol, 3,4-dimethyl- (C7) (Me-E₁); 1,4-pentanediol, 3,4-dimethyl- (\$\psi^7\$) PO₁; 1,4-pentanediol, 3,4-dimethyl-(C7) n-BO₂₋₄; 1,4-pentanediol, 3-methy/- (C6) 2(Me-E₁₋₆); 1,4-pentanediol, 3methyl- (C6) PO₂₋₃; 1,4-pentanediol, 4-methyl- (C6) BO₁; 1,4-pentanediol, 4methyl- (C6) 2(Me-E₁₋₆); 1,4-pentanediol, 4-methyl- (C6) PO₂₋₃; 1,4-pentanediol, 4-methyl- (C6) BO₁; 1,5-pentanediol, (C5) (Me/E₄₋₁₀); 1,5-pentanediol (C5) 2(Me-E₁); 1,5-pentanediol (C5) PO₃; 1,5-pentanediol, 2,2-dimethyl- (C7) E₁₋₇; 1,5pentanediol, 2,2-dimethyl- (C7) PO₁/1,5-pentanediol, 2,2-dimethyl- (C7) n-BO₁₋₂, 1,5-pentanediol, 2,3-dimethyl-/(C7) E_{1-7} /1/5-pentanediol, 2,3-dimethyl- (C7) PO₁; 1,5-pentanediol, 2,3-dimethyl- (C7) n-BO/1-2; 1,5-pentanediol, 2,4-dimethyl- (C7) E₁₋₇; 1,5-pentanediol, 2,4-dimethy-/(C7)/PO₁; 1,5-pentanediol, 2,4-dimethyl- (C7) n-BO₁₋₂; 1,5-pentanediol,/2-ethyl-/(C7) E/1-5; 1,5-pentanediol, 2-ethyl- (C7) n-BO₁-2; 1,5-pentanediol, 2-methyl- (C6) (Me-E₁₋₄); 1,5-pentanediol, 2-methyl- (C6) PO₂; 1,5-pentanediol, 3,3-dimethyl-/(07) E₁₋₇; 1,5-pentanediol, 3,3-dimethyl- (C7) PO₁; 1,5-pentanediol, 3,3-dimethyl- (\rlap/c 7) n-B \rlap/ϕ_{1-2} ; 1,5-pentanediol, 3-methyl- (C6) (Me-E₁₋₄); 1,5-pentanediol, 3-methyl- (C6) PO₂; 2,3-pentanediol, (C5) (Me-E₁₋₃); 2,3pentanediol, (C5) PO₂, 2,3-pentanediol, 2-methyl- (C6) E₁₋₇, 2,3-pentanediol, 2methyl- (C6) PO₁; 2,3-pentanediol, 2-methyl- (C6) n-BO₁₋₂; 2,3-pentanediol, 3methyl- (C6) E₁₋₇, 2,3-pentanediol, 3-methyl- (C6) PO₁; 2,3-pentanediol, 3-methyl-(C6) n-BO₁₋₂, 2,3-pentanediol, 4-methyl- (C6) E₁₋₇, 2,3-pentanediol, 4-methyl-(C6) PO₁; 2,3-pentanediol, 4-methyl- (C6) n-BO₁₋₂, 2,4-pentanediol, (C5) 2(Me- E_{1-4}); 2,4-pentanediol (Q_5) PO₄; 2,4-pentanediol, 2,3-dimethyl- (C7) (Me- E_{1-4}). 2,4-pentanediol, 2,3-dimethyl- (C7) PO2; 2,4-pentanediol, 2,4-dimethyl- (C7) (Me- E_{1-4} ; 2,4-pentanediol, 2,4-dimethyl- (C7) PO₂; 2,4-pentanediol, 2-methyl- (C7) (Me-É₅₋₁₀), 2,4-pentahediol, 2-methyl- (C7) PO₃; 2,4-pentanediol, 3,3-dimethyl-(C7) (Me- E_{1-4}); 2,4-pentanediol, 3,3-dimethyl- (C7) PO₂, 2,4-pentanediol, 3methyl- (C6) (Me-E₅/₁₀); 2,4-pentanediol, 3-methyl- (C6) PO₃;

1,3-hexanediol (C6) (Me-E₁₋₅), 1,3-hexanediol (C6) PO₂, hexanediol (C6) BO1; 1,3-hexanediol, 2-methyl- (C7) E2-9; 1,3-hexanediol, 2methyl- (C7) PO₁; 1,3-hexanediol, 2-methyl- (C7) n-BO₁₋₃; 1,3-hexanediol, 2methyl- (C7) BO₁; 1,3-hexanediol, 3-methyl- (C7) E₂₋₉; 1,3-hexanediol, 3-methyl-(C7) PO₁; 1,3-hexanediol, 3-methyl- (C7) n-BO₂, 1,3-hexanediol, 4/methyl- (C7) E₂₋₉; 1,3-hexanediol, 4-methyl- (C7) PO₁; 1,3-hexanediol, 4-methyl- (C7) n-BO₁₋₃; 1,3-hexanediol, 5-methyl- (C7) E_{2-9} ; 1,3-hexanediol, 5-methyl-/(C7) PO_1 ; 1,3hexanediol, 5-methyl- (C7) n-BO₁₋₃; 1,4-hexanediol (C6) (Me-E₁/₅); 1,4-hexanediol (C6) PO₂, 1,4-hexanediol (C6) BO₁, 1,4-hexanediol, 2-methyl- (C7) E₂₋₉, 1,4hexanediol, 2-methyl- (C7) PO₁; 1,4-hexanediol, 2-methyl-/(C7) n-BO₁₋₃; 1,4hexanediol, 3-methyl- (C7) E₂₋₉; 1,4/hexanediol, 3-methyl- (C7) PO₁; 1,4hexanediol, 3-methyl- (C7) n-BO₁₋₃; $\sqrt{4-\text{hexanediol}}$, 4-methyl- (C7) E₂₋₉; 1,4hexanediol, 4-methyl- (C7) PO₁; 1,4-hexanediol, 4-methyl- (C7) n-BO₁₋₃; 1,4hexanediol, 5-methyl- (C7) E₂₋₉; /1,4-hexanediol, /5-methyl- (C7) PO₁; 1,4hexanediol, 5-methyl- (C7) n-BO₁₋₃; /1,5-hexanediol (C6) (Me-E₁₋₅); 1,5-hexanediol (C6) PO₂; 1,5-hexanediol (C6) BO₁, 1,5-hexanediol, 2-methyl- (C7) E₂₋₉; 1,5hexanediol, 2-methyl- (C7) POy, 1,5-hexanediol, 2-methyl- (C7) n-BO₁₋₃; 1,5hexanediol, 3-methyl- (C7) £2-9, 1,5-hexanediol, 3-methyl- (C7) PO₁, 1,5hexanediol, 3-methyl- (C7) $n-BQ_{1-3}$, 1,5-hexanediol, 4-methyl- (C7) E_{2-9} , 1,5hexanediol, 4-methyl- (C7) PO1/, 1/5-hexanediol, 4-methyl- (C7) n-BO1-3, 1,5hexanediol, 5-methyl- (C7) E_{2-9} // 1,5/hexanediol, 5-methyl- (C7) PO₁, 1,5hexanediol, 5-methyl- (C7) n-BO1/3, 1,6-hexanediol (C6) (Me-E₁₋₂), 1,6-hexanediol (C6) PO₁₋₂; 1,6-hexanediol (C\$) n/BO4; 1,6-hexanediol, 2-methyl- (C7) E₁₋₅; 1,6hexanediol, 2-methyl- (C7) $n/BO_{1/2}$; 1,6-hexanediol, 3-methyl- (C7) E_{1-5} ; 1,6hexanediol, 3-methyl- (C7) $n/BO_{1/2}$; 2,3-hexanediol (C6) E_{1-5} ; 2,3-hexanediol (C6) n-BO₁, 2,3-hexanediol (C6)/BO₁, 2,4-hexanediol (C6) (Me-E₃₋₈); 2,4-hexanediol (C6) PO3; 2,4-hexanediol, 2/methyl/ (C7) (Me-E1-2); 2,4-hexanediol 2-methyl- (C7) PO₁₋₂; 2,4-hexanediol, 3-methyl- (C7) (ME-E₁₋₂); 2,4-hexanediol 3-methyl- (C7) PO₁₋₂, 2,4-hexanediol, 4-methyl- (C7) (Me-E₁₋₂); 2,4-hexanediol 4-methyl- (C7) PO_{1-2} , 2,4-hexanediol, 5-methyl- (C7) (Me-E₁₋₂), 2,4-hexanediol 5-methyl- (C7) PO₁₋₂, 2,5-hexanediol (\$\tilde{Q}\$6) (Me-E₃₋₈); 2,5-hexanediol (C6) PO₃; 2,5-hexanediol, 2methyl- (C7) (Me- E_{1-2}); 2,5-hexanediol 2-methyl- (C7) PO₁₋₂; 2,5-hexanediol, 3methyl- (C7) (Me-E₁₋₂); 2,5-hexanediol 3-methyl- (C7) PO₁₋₂; 3,4-hexanediol (C6) EO₁₋₅; 3,4-hexanediol (C6) n-BO₁; 3,4-hexanediol (C6) BO₁;

5. 1,3-heptanediol (C7) E_{1-7} ; 1,3-heptanediol (C7) PO_1 ; 1,3-heptanediol (C7) n_1BO_{1-2} ; 1,4-heptanediol (C7) E_{1-7} ; 1,4-heptanediol (C7) PO_1 ; 1,4-heptanediol (C7) n_1BO_{1-2} ; 1,5-heptanediol (C7) n_1BO_{1-2} ; 1,5-heptanediol (C7)

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PO₁; 1,5-heptanediol (C7) n-BO₁₋₂; 1,6-heptanediol (C7) E₁₋₇; 1,6-heptanediol (C7) PO₁; 1,6-heptanediol (C7) n-BO₁₋₂; 1,7-heptanediol (C7) E_{1-2} ; 1,7-heptanediol (C7) n-BO₁; 2,4-heptanediol (C7) E₃₋₁₀; 2,4-heptanediol (C7) PO₁; 2,4-heptanediol (C7) n-BO₃; 2,5-heptanediol (C7) (Me-E₁); 2,5-heptanediol (C7) (Me-E₁); 2,5-heptanediol (C7) PO₁; 2,5-heptanediol (C7) n-BO₃; 2,6-heptanediol (C7) E₃₋₁₀; 2,6-heptanediol (C7) (Me-E₁); 2,6-heptanediol (C7) PO₁; 2,6-heptanediol (C7) n-BO₃; 3,5-heptanediol (C7) E₃-10; 3,5-heptanediol (C7) n-BO₃;

1,3-butanediol, 3-methyl-2-isopropyl- (C8) PO1; 2,4-pentanediol, 2,3,3-trimethyl- (C8) PO₁; 1,3-butanediol, 2,2-diethyl- (C8) E₂₋₅; 2,4-hexanediol, 2,3-dimethyl- (C8) E₂₋₅; 2,4-hexanediol, 2/4-dimethyl- (C8) E₂₋₅; 2,4-hexanediol, 2,5-dimethyl- (C8) E₂₋₅; 2,4-hexanediol, 3,3-dimethyl-/(C8) E₂₋₅; 2,4-hexanediol, 3,4-dimethyl- (C8) E₂₋₅; 2,4-hexanediol,/3,5-dimethyl- (C8) E₂₋₅; 2,4-hexanediol, 4,5-dimethyl- (C8) E₂₋₅; 2,4-hexanediol, 5,5-dimethyl- (C8) E₂₋₅; 2,5-hexanediol, 2,3-dimethyl- (C8) E₂₋₅; 2,5-hexanediol, 2,4-dimethyl- (C8) E₂₋₅; 2,5-hexanediol, 2,5-dimethyl- (C8) E₂₋₅; 2,5-hexanediol, 3,3-dimethyl- (C8) E₂₋₅; 2,5-hexanediol, 3,4-dimethyl- (C8) E₂₋₅; 3,5-heptanediol, 3-methyl- (C8) E₂₋₅; 1,3-butanediol, 2,2diethyl- (C8) n-BO₁₋₂, 2,4-hexanediol, 2,3 dimethyl- (C8) n-BO₁₋₂, 2,4-hexanediol, 2,4-dimethyl- (C8) n-BO₁₋₂, 2,4-dexanediol, 2,5-dimethyl- (C8) n-BO₁₋₂, 2,4hexanediol, 3,3-dimethyl- (C8) n-B $\phi_{1/2}$; 2,4-hexanediol, 3,4-dimethyl- (C8) n-B $\phi_{1/2}$ 2; 2,4-hexanediol, 3,5-dimethyl- (98) n-BO₁₋₂; 2,4-hexanediol, 4,5-dimethyl- (C8) n-BO₁₋₂, 2,4-hexanediol, 5,5-dimethyl-, n-BO₁₋₂; 2,5-hexanediol, 2,3-dimethyl-(C8) n-BO₁₋₂; 2,5-hexanediol, 2,4-dimethyl- (C8) n-BO₁₋₂; 2,5-hexanediol, 2,5dimethyl- (C8) n-BO₁₋₂ 2,5-hexanediol, 3,3-dimethyl- (C8) p-BO₁₋₂; 2,5hexanediol, 3,4-dimethyl (C8) n/BO₁₋₂ 3,5-heptanediol, 3-methyl- (C8) n-BO₁₋₂; 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) n-BO1; 1,3-butanediol, 2-ethyl-2,3dimethyl- (C8) n-BO1; 1,3-b/tanediol, 2-methyl-2-isopropyl- (C8) n-BO1; 1,4butanediol, 3-methyl-2-isopropyl- (C8) h-BO1; 1,3-pentanediol, 2,2,3-trimethyl-(C8) n-BO₁:/1,3-pentanediol,/2,2,4-trimethyl- (C8) n-BO₁; 1,3-pentanediol, 2,4,4trimethyl-/(C8) n-BO₁; 1/3-pentanediol, 3,4,4-trimethyl- (C8) n-BO₁, 1,4pentanediol, 2,2,3-trimethyl-/(C8) n-BO1; 1,4-pentanediol, 2,2,4-trimethyl- (C8) n-BO₁/1,4-pentanediol, 2,3,3/trimethyl- (C8) n-BO₁, 1,4-pentanediol, 2,3,4-trimethyl-(C8) n-BO₁, 1,4-pentaned/ol, 3,3,4-trimethyl- (C8) n-BO₁; 2,4-pentanediol, 2,3,4trimethyl- (C8) n-BO₁; 2,4-hexanediol, 4-ethyl- (C8) n-BO₁; 2,4-heptanediol, 2methyl- (C8) n-BO1; 2,4-heptanediol, 3-methyl- (C8) n-BO1; 2,4-heptanediol, 4methyl- (C8) n-BO1; 2,4-heptanediol, 5-methyl- (C8) n-BO1; 2,4-heptanediol, 6methyl- (C8) n-BO₁; 2/5-heptanediol, 2-methyl- (C8) n-BO₁; 2,5-heptanediol, 3-

methyl- (C8) n-BO₁; 2,5-heptanediol, 4-methyl- (C8)/n-BO₁; 2,5-heptanediol,/5methyl- (C8) n-BO₁; 2,5-heptanediol, 6-methyl- (C8) n-BO₁; 2,6-heptanediol, 2methyl- (C8) n-BO₁; 2,6-heptanediol, 3-methyl- (C8) n-BO₁; 2,6-heptanediol, 4methyl- (C8) n-BO₁; 3,5-heptanediol, 2-methyl- (C8) n-BO₁; 1,3-propanediol, 2-(1,2-dimethylpropyl)- (C8) E_{1-3} ; 1,3-butanediol,/2-ethyl-2,3-dimethyl- (C8) E_{1-3} ; 1,3-butanediol, 2-methyl-2-isopropyl- (C8) $E_{1/3}$; 1,4-butanediol, $\sqrt{3}$ -methyl-2isopropyl- (C8) E₁₋₃; 1,3-pentanediol, 2,2,3-trimethyl- (C8) E₁₋₃; 1,3-pentanediol, 2,2,4-trimethyl- (C8) E_{1-3} ; 1,3-pentanedio), 2,4,4-trimethyl- (C8) E_{1-3} ; 1,3pentanediol, 3,4,4-trimethyl- (C8) E₁₋₃; 1,4-pentanediol, 2,2,3-trimethyl- (C8) E₁₋₃; 1,4-pentanediol, 2,2,4-trimethyl- (C8) E_{1-3} ; 1,4-pentanediol, 2,3,3-trimethyl- (C8) E₁₋₃; 1,4-pentanediol, 2,3,4-trimethyl- (C/8) E₁₋₃; 1,4-pentanediol, 3,3,4-trimethyl-(C8) E₁₋₃, 2,4-pentanediol, 2,3,4-trimethyl- (C8) E₁₋₃, 2,4-hexanediol, 4-ethyl- (C8) E₁₋₃; 2,4-heptanediol, 2-methyl- (C8) £₁₋₃; 2,4-heptanediol, 3-methyl- (C8) E₁₋₃; 2,4-heptanediol, 4-methyl- (C8) $E_{1-3}/2$,4-heptanediol, 5-methyl- (C8) E_{1-3} , 2,4heptanediol, 6-methyl- (C8) E_{1-3} ; /2,5-heptanediol, 2-methyl- (C8) E_{1-3} ; 2,5heptanediol, 3-methyl- (C8) E_{1-3} , 2,5-heptanediol, 4-methyl- (C8) E_{1-3} ; 2,5heptanediol, 5-methyl- (C8) E_{1-3} , 2,5-heptanediol/6-methyl- (C8) E_{1-3} ; 2,6heptanediol, 2-methyl- (C8) E_{1-3} , 2,6-heptanediol, 3-methyl- (C8) E_{1-3} , 2,6heptanediol, 4-methyl- (C8) E₁₋₃; and/or/3,5-heptanediol, 2-methyl- (C8) E₁₋₃; and mixtures thereof;

DX. aromatic diols including: 1-phenyl-1,2-ethanediol; 1-phenyl-1,2-propanediol; 2-phenyl-1,2-propanediol; 3-phenyl-1,2-propanediol; 1-(3-methylphenyl)-1,3-propanediol; 1-(4-methylphenyl)-1,3-propanediol; 2-methyl-1,3-butanediol; 3-phenyl-1,3-butanediol; 1-phenyl-1,3-butanediol; 1-phenyl-1,4-butanediol; and/or 1-phenyl-2,3-butanediol;

X. solvents which have a ClogP value of from about 0.15 to about 0.64 and are homologs, or analogs, of the above structures where one, or more, CH₂ groups are added while, for each CH₂ group added, two hydrogen atoms are removed from adjacent carbon atoms in the molecule to form one carbon-carbon double bond, thus holding the number of hydrogen atoms in the molecule constant, including the following:

1,3-Propanediol, 2,2-di-2-propenyl-; 1,3-Propanediol, 2-(1-pentenyl)-; 1,3-Propanediol, 2-(2-methyl-2-propenyl)-; 1,3-Propanediol, 2-(3-methyl-1-butenyl)-; 1,3-Propanediol, 2-(4-pentenyl)-; 1,3-Propanediol, 2-ethyl-2-(2-methyl-2-propenyl)-; 1,3-Propanediol, 2-ethyl-2-(2-propenyl)-; 1,3-Propanediol, 2-methyl-2-(3-methyl-3-butenyl)-; 1,3-Butanediol, 2,2-diallyl-; 1,3-Butanediol, 2-(1-ethyl-1-propenyl)-; 1,3-Butanediol, 2-(2-butenyl)-2-methyl-; 1,3-Butanediol, 2-(3-methyl-2-methyl-2-methyl-; 1,3-Butanediol, 2-(3-methyl-2-methyl-2-methyl-; 1,3-Butanediol, 2-(3-methyl-2-methyl-2-methyl-; 1,3-Butanediol, 2-(3-methyl-2-methyl-2-methyl-; 1,3-Butanediol, 2-(3-methyl-2-methyl-2-methyl-; 1,3-Butanediol, 2-(3-methyl-2-methyl-2-methyl-2-methyl-

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butenyl)-; 1,3-Butanediol, 2-ethyl-2-(2-propenyl)-; 1,3-Butanediol, 2-methyl-2-(1methyl-2-propenyl)-; 1,4-Butanediol, 2,3-bis(1-methylethylidene)-; 1,4/Butanediol, 2-(3-methyl-2-butenyl)-3-methylene-; 2-Butene-1,4-diol, 2/(1,1-dimethylpropyl)-; 2-Butene-1,4-diol, 2-(1-methylpropyl)-; 2-Butene-1,4-diol/2-butyl-; 1/3-Pentanediol, 2-ethenyl-3-ethyl-; 1,3-Pentanediol, 2-ethenyl-4,4-dimethyl-; 1,4/Pentanediol, 3methyl-2-(2-propenyl)-; 1,5-Pentanediol, 2-(1-propenyl)-; 1,5-Pentanediol, 2-(2propenyl)-; 1,5-Pentanediol, 2-ethylidene-3-methyl-; 1,5-Pentanediol, 2-propylidene-; 2,4-Pentanediol 3-ethylidene-2,4-dimethyl-; 4-Pentene-1,3-diol. 2-(1,1dimethylethyl)-; 4-Pentene-1,3-diol, 2-ethyl-2,3-dimethyl-; 1,4-Hexanediol, 4-ethyl-2-methylene-; 1,5-Hexadiene-3,4-diol, 2,3,5-trimethyl-; 1,5/Hexadiene-3,4-diol, 5ethyl-3-methyl-; 1,5-Hexanediol, 2-(1-methylethenyl)-; 1,6-Hexanediol, 2-ethenyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 2-Hexene-1,5diol, 4-ethenyl-2,5-dimethyl-; 3-Hexene-1,6-diol, 2-ethenyl-2,5-dimethyl-; 3-Hexene-1,6-diol, 2-ethyl-; 3-Hexene-1,6-diol, 3/4-dimethyl-; 4-Hexene-2,3-diol, 2,5dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-1,3-diol, 3-(2-propenyl)-; 5-Hexene-2,3-diol, 2,3-dimethyl-; 5-Hexene-2,3-diol) 3,4-dimethyl-; 5-Hexene-2,3diol, 3,5-dimethyl-; 5-Hexene-2,4-diol, 3/ethenyl-2/5-dimethyl-; 1,4-Heptanediol, 6methyl-5-methylene-; 1,5-Heptadiene-3/4-diøl, 2/3-dimethyl-; 1,5-Heptadiene-3,4diol, 2,5-dimethyl-; 1,5-Heptadiene-3,4-diol,/3,5-dimethyl-; 1,7-Heptanediol, 2,6bis(methylene)-, 1,7-Heptanediol, 4-methylene-, 1-Heptene-3,5-diol, 2,4-dimethyl-, 1-Heptene-3,5-diol, /1-Heptene-3,5-diol, 3-ethenyl-5-methyl; 2,6-dimethyl-: .4/Heptadiene-2,6-diol, Heptene-3,5-diol, 6,6-dimethyl-4,6-dimethyl-; Heptadiene-1,7-diol, 4,4/dimethyl-;//2,6/Heptadiene-1,4-diol, 2,5,5-trimethyl-; 2-Heptene-1,4-diol, 5,6-dimethyl-; 2-Heptene-1,5-diol, 5-ethyl-; 2-Heptene-1,7-diol, 2methyl-; 3-Heptene-1,\$-diol, 4.6-dimethyl-; 3-Heptene-1,7-diol, 3-methyl-6methylene-; 3-Heptene-2,5-diol, 2,4-dimethyl-; 3-Heptene-2,5-diol, 2,5-dimethyl-; 3-Heptene-2,6-diol, 2,6-dimethyl-;/3-Heptene-2,6-diol, 4,6-dimethyl-; 5-Heptene-1,3diol, 2,4-dimethyl-; 5-Heptene-1,3-diol, 3,6-dimethyl-; 5-Heptene-1,4-diol, 2,6dimethyl; 5-Heptene-1,4-diol,/3,6-dimethyl-; 5-Heptene-2,4-diol, 2,3-dimethyl-, 6-Heptene-1,3-diol, 2,2-dimethyl-; 6-Heptene-1,4-diol, 4-(2-propenyl)-; 6-Heptene-1,4-diol, 5,6-dimethyl-; 6-Heptene-1,5-diol, 2,4-dimethyl-; 6-Heptene-1,5-diol, 2ethylidene-6-methyl-; 6-Heptene-2,4-diol, 4-(2-propenyl)-; 6-Heptene-2,4-diol, 5,5dimethyl-; 6-Heptene-2,5/diol, 4,6-dimethyl-; 6-Heptene-2,5-diol, 5-ethenyl-4methyl-, 1,3-Octanediol, /2-methylene-, 1,6-Octadiene-3,5-diol, 2,6-dimethyl-, 1,6-Octadiene-3,5-diol, 3,7-dimethyl-; 1,7-Octadiene-3,6-diol, 2,6-dimethyl-; 1,7-Octadiene-3,6-diol, 2,7/dimethyl-; 1,7-Octadiene-3,6-diol, 3,6-dimethyl-; 1-Octene-3,6-diol, 3-ethenyl-, 2,4,6-Octatriene-1,8-diol, 2,7-dimethyl-; 2,4-Octadiene-1,7-diol,

3,7-dimethyl-; 2,5-Octadiene-1,7-diol, 2,6-dimethyl-; 2,5-Octadiene-1,7-diol, 3/7dimethyl-, 2,6-Octadiene-1,4-diol, 3,7-dimethyl- (Rosiridel), 2,6-Octadiene-1,8-diol, 2-methyl-, 2,7-Octadiene-1,4-diol, 3,7-dimethyl-, 2/7-Octadiene-1,5-diol,/ dimethyl-, 2,7-Octadiene-1,6-diol, 2,6-dimethyl- (8-Hydroxylinalool), 2,7-Octadiene-1.6-diol, 2,7-dimethyl-, 2-Octene-1,4-diol, 2-Octene-1,7-diol, 2-Octen methyl-6-methylene-; 3,5-Octadiene-1,7-diol, 3,7-dimethyl-; 3,5-Octadiene-2,7-diol, 2,7-dimethyl-; 3,5-Octanediol, 4-methylene-; 3,7-octadiene-1,6-diol, 2,6-dimethyl-; 3,7-Octadiene-2,5-diol, 2,7-dimethyl-, 3,7-Octadiene-2,6-diol, 2,6-dimethyl-, 3-Octene-1,5-diol, 4-methyl-; 3-Octene-1,5-diol,/5-methyl-; 4,6-Octadiene-1,3-diol, 2,2-dimethyl-; 4,7-Octadiene-2,3-diol, 2,6-dimethyl-; 4,7-Octadiene-2,6-diol, 2,6dimethyl-; 4-Octene-1,6-diol, 7-methyl-; 2,7-bis(methylene)-; 2-methylene-; 5,7-Octadiene-1,4-diol, 2,7-dimethyl-; 5,7-Octadiene-1,4-diol, 7-methyl-; 5-Octene-1,3diol; 6-Octene-1,3-diol, 7-methyl-; 6-Octene-1,4-diol, 7-methyl-; 6-Octene-1,5-diol; 6-Octene-1,5-diol, 7-methyl-, 6-Octene-3,5-diol, 2-methyl-/6-Octene-3,5-diol, 4methyl-; 7-Octene-1,3-diol, 2-methyl-; 7/Octene-1,3-diol, /-methyl-; 7-Octene-1,3diol, 7-methyl-, 7-Octene-1,5-diol, 7-Octene-1,6-diol, 7-Octene-1,6-diol, 5-methyl-, 7-Octene-2,4-diol, 2-methyl-6-methylene-, 7-Octene-2,5-diol, 7-methyl-, 7-Octene-3,5-diol, 2-methyl-, 1-Nonene-3,5-diol, 1-Nonene-3,7-diol, 3-Nonene-2,5-diol, 4,6-Nonadiene-1,3-diol, 8-methyl, 4-Nonene-2,8-diol/ 6,8-Nonadiene-1,5-diol, 7-Nonene-2,4-diol; 8-Nonene-2,4-diol; /8-Nonene-2,5-diol; 1,9-Decadiene-3,8-diol; and/or 1,9-Decadiene-4,6-diol, and

XI. mixtures thereof, said principal solvent containing insufficient amounts of solvents selected from the group consisting of: 2,2,4-trimethyl-1,3-pentane diol; the ethoxylate, diethoxylate, or triethoxylate derivatives of 2,2,4-trimethyl-1,3-pentane diol; and/or 2-ethylpexyl-1,3-diol; to provide an aqueous stable product;

- Optionally, but preferably, an effective amount, sufficient to improve clarity, of low molecular weight water soluble solvents like ethanol, isopropanol, propylene glycol, 1,3-propanediol, propylene carbonate, etc., said water soluble solvents being at a level that will not form clear compositions by themselves;
- D. optionally, but preferably, an effective amount to improve clarity, of water soluble calcium and/or magnesium salt, preferably chloride; and
- E. the balance being water.
- 52. A composition according to Claim 51 wherein said principal solvent B is present at an effective amount, but less than the amount required to achieve stability and the composition is made stable by addition of another solvent that is itself inoperable to achieve stability.

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- 53. The process of making a clear fabric softening composition using the premix of Claim 47 and adding said premix to a water seat comprising water; acid to create a pH of from about 1.5 to about 5; and, optionally, an effective amount of water soluble calcium and/or magnesium salt.
- 54. The process of making a solvent mixture of Claim 6 comprising the condensation of butyraldehyde, isobutyraldehyde and/or methyl ethyl ketone (2-butanone), so long as the level of butyraldehyde, or isobutyraldehyde is less than about 95% of the reaction mixture, in the presence of highly alkaline catalyst followed by conversion by hydrogenation.
- 55. The process of Claim 54 wherein the level of butyraldehyde, or isobutyraldehyde is less than about 85% of the reaction mixture.
- 56. The process of Claim 54 wherein the level of butyraldehyde, or isobutyraldehyde is less than about 80% of the reaction mixture.
- 57. The mixture prepared by the process of Claim 54.